



MVP Southgate Project

Docket No. CP19-14-000

Attachment 20-1

Virginia Wetland and Waters Delineation Report Addendum 1

March 2019



MVP Southgate Project

Docket No. CP19-14-000

Virginia

Wetland and Waters Delineation Report – Addendum #1

March 2019

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Appendix A Revised Wetland and Waterbody Delineation Maps

LIST OF ACRONYMS AND ABBREVIATIONS

MVP	Mountain Valley Pipeline, LLC.
Project	MVP Southgate Project
USACE	U.S. Army Corps of Engineers

1.0 INTRODUCTION

Mountain Valley Pipeline, LLC has prepared this addendum to the November 2018 Wetland Delineation Report to summarize changes to the limits of delineated resources within the Virginia portion of the MVP Southgate Project (“Southgate Project” or “Project”) through January 2019. Wetland and waterbody delineations are being conducted for the Southgate Project area to support state and federal permitting. A preliminary jurisdictional determination is on-going with the U.S. Army Corps of Engineers (“USACE”) Norfolk District.

The Project has not conducted new delineations in Virginia since the November 2018 report was submitted. Field surveys for the properties not surveyed to date are planned to begin in April 2019. Results of those surveys will be submitted in a second addendum to this report.

2.0 REVISIONS

The USACE Norfolk District staff reviewed delineated wetlands and waters in the field on October 31, 2018 through November 2, 2018. During the field evaluation, changes were made to several delineated resources. The types of changes included removal of non-jurisdictional resources (e.g. ephemeral drainages), extension of wetlands, or reclassification of flow type. In addition to changes made by the USACE, the Project has extended the limits of several wetlands or streams to account for route modifications. The boundaries of extended resources are based on desktop data but will be field-delineated when surveys begin again in April. All of the current changes are summarized in Table 1 and are depicted on revised Wetland and Waterbody Delineation Maps provided as Appendix A.

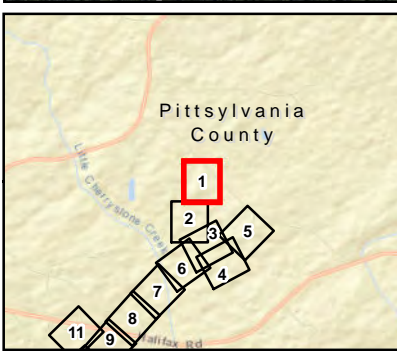
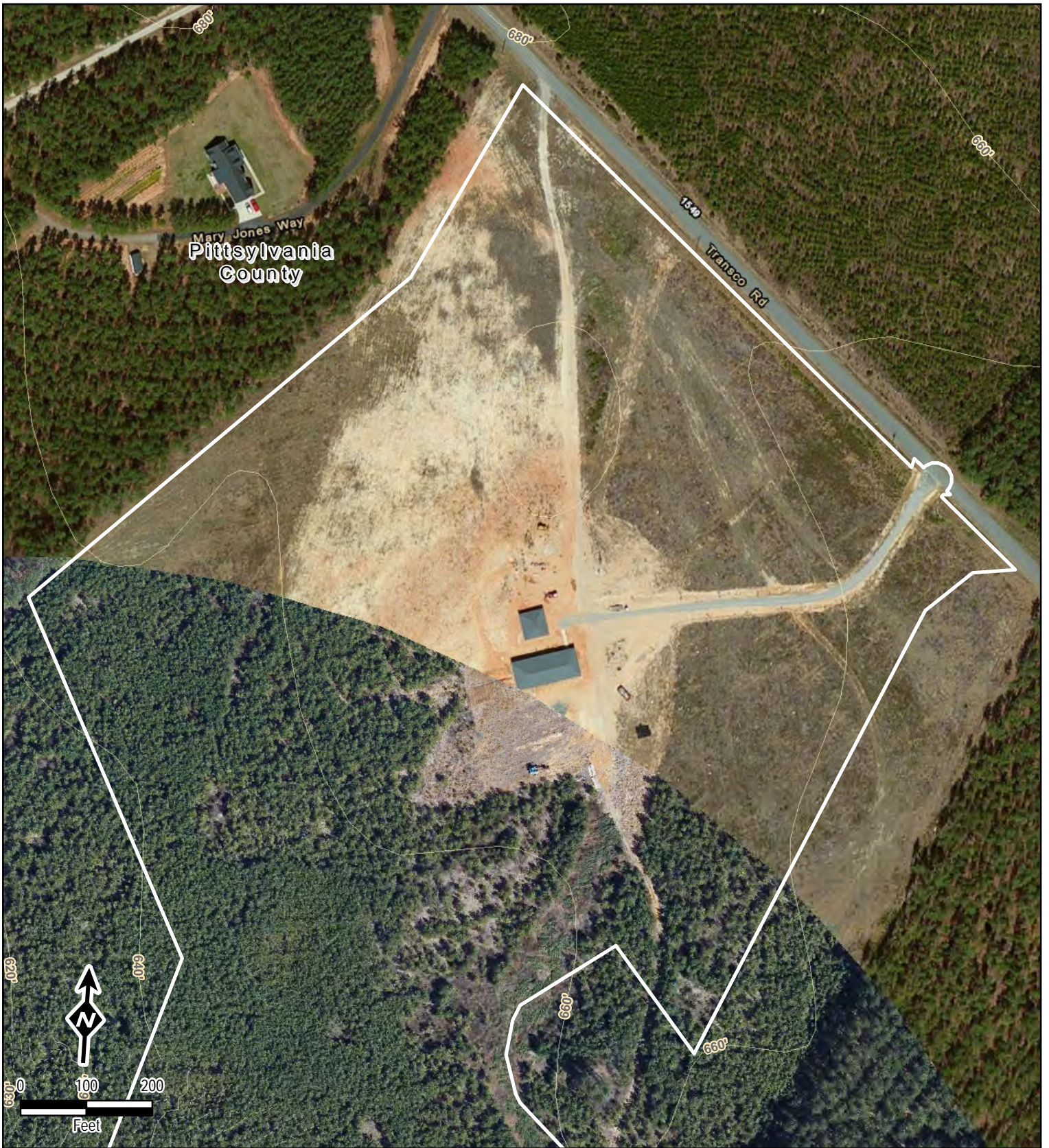
Mile post	Resource ID	Resource Type	Latitude	Longitude	Change
1.1	S-E18-18	Perennial trib to Cherrystone Creek	36.814962	-79.355541	Reclassification of stream from intermittent to perennial
6	S-D18-15	Ephemeral trib to White Oak Creek	36.763459	-79.412617	Determined non-jurisdictional by USACE
6.2	S-D18-16	Ephemeral trib to White Oak Creek	36.761554	-79.414379	Determined non-jurisdictional by USACE
11.4	AW-F18-27	Forested wetland	36.703863	-79.470384	W-F18-27 was extended to connect to S-F18-20
19.7	W-F18-51	Forested wetland	36.613869	-79.562375	W-F18-51 was extended to connect to S-F18-50
22.6	S-E18-39	Perennial trib to Trotters Creek	36.58471	-79.598883	Reclassification of stream from intermittent to perennial
23.9	W-E18-33	Forested wetland	36.565794	-79.607323	Jurisdictional limits reduced by USACE
23.9	S-E18-34	Intermittent trib to Dan River	36.565853	-79.607781	Reclassification of stream from perennial to intermittent
24.4	S-F18-34	Ephemeral trib to Dan River	36.560867	-79.612899	Reclassification of stream from perennial to ephemeral
13.6	AS-D18-26	Perennial tributary to Sandy Creek	36.676555	-79.490876	Extended the resource due to shift in corridor

Appendix A

Revised Wetland and Waterbody Delineation Maps

(Revised Figure 4 from November 2018 Wetland Delineation Report)

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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
⋯ Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



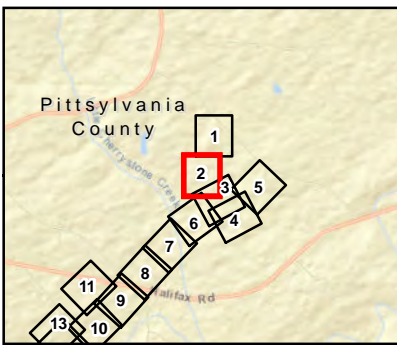


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 1 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type	▨ PEM Wetland	Modified Based On
— Perennial	▨ PFO Wetland	USACE Or State Review
- - - Intermittent	▨ PSS Wetland	— Stream
⋯ Ephemeral	▨ Approx. Wetland	— Wetland Boundary
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— Approx. Stream Centerline	● PEM Data Plot	▨ Wetland
▨ Surface Water	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



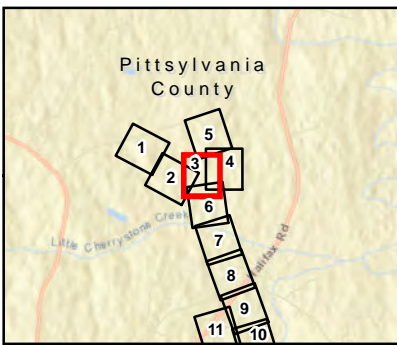


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent ⋯ Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ▭ Surface Water 	<ul style="list-style-type: none"> ▭ Approx. Surface Water — Delineated Wetland Boundary ▭ PEM Wetland ▭ PFO Wetland ▭ PSS Wetland ▭ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ▭ Surface Water ▭ Wetland
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Data Sources: ESRI, EQT, TRC

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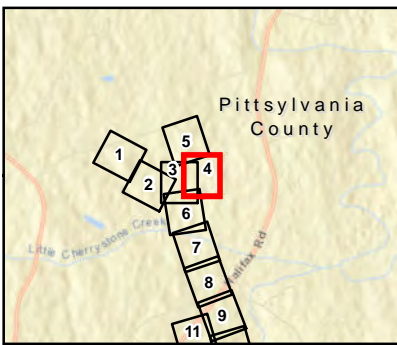


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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March 2019

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Legend

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Data Sources: ESRI, EQT, TRC

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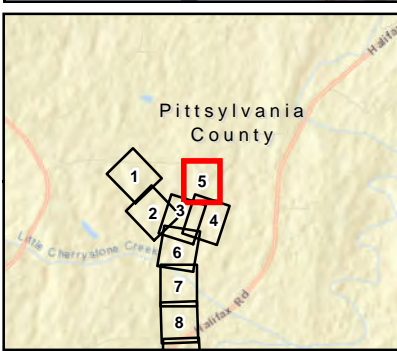
Mountain Valley PIPELINE LLC

Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 4 of 125

TRC
Results you can rely on

600 Willowbrook Ln
West Chester, PA 19382
March 2019

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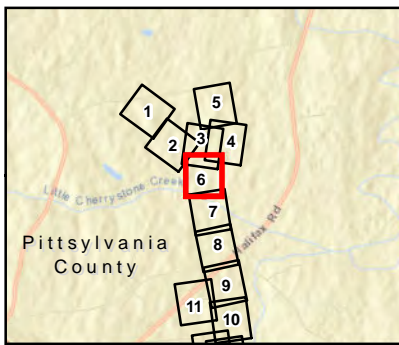
Data Sources: ESRI, EQT, TRC

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Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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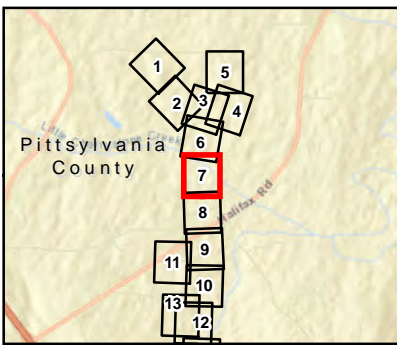
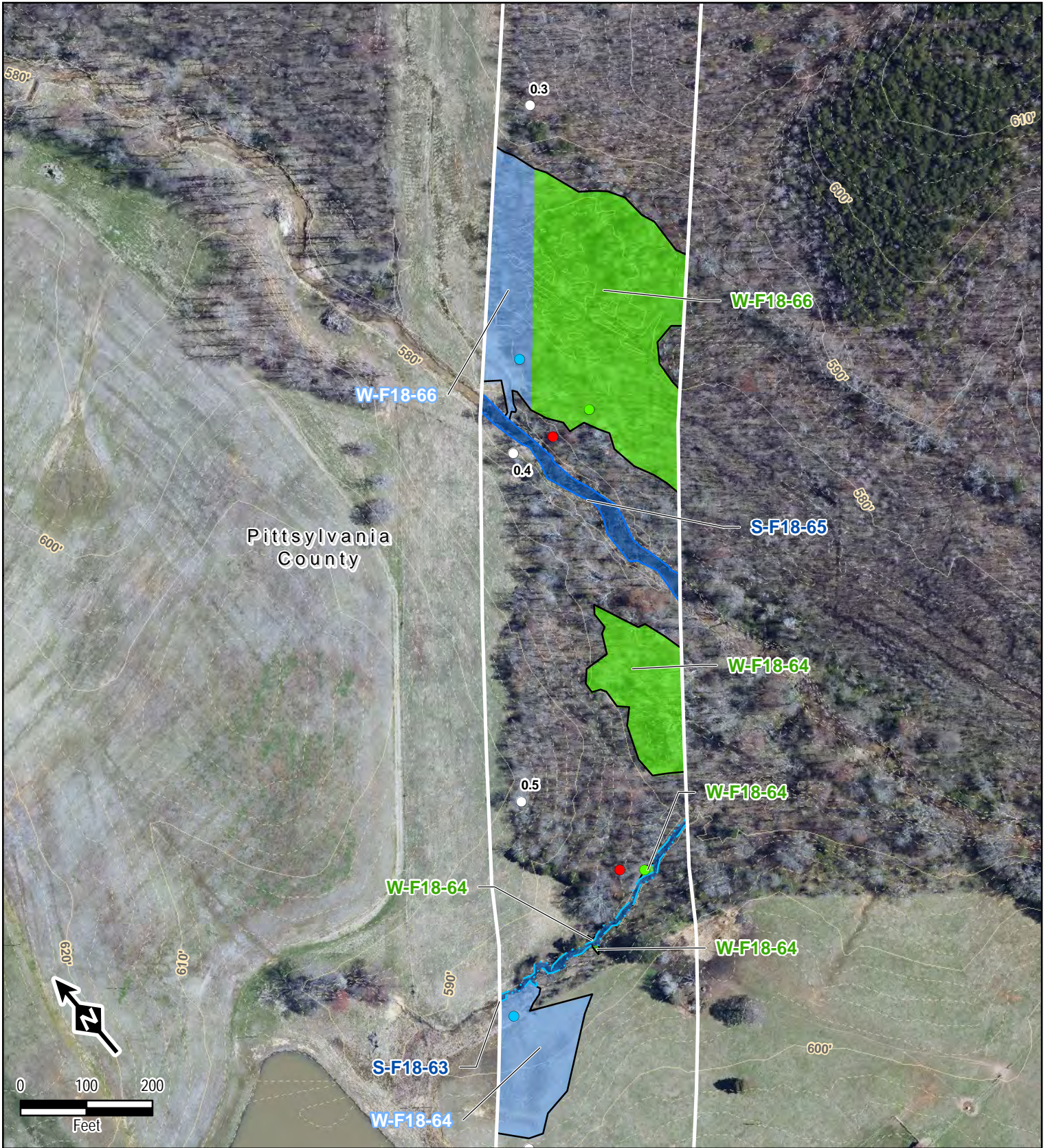
<ul style="list-style-type: none"> Mileposts Survey Area Stream Type Perennial Intermittent Ephemeral Approx. Stream Bank/Edge Approx. Stream Centerline Surface Water 	<ul style="list-style-type: none"> Approx. Surface Water Delineated Wetland Boundary PEM Wetland PFO Wetland PSS Wetland Approx. Wetland Contours PEM Data Plot PFO Data Plot 	<ul style="list-style-type: none"> PSS Data Plot Upland Data Plot Modified Based On USACE Or State Review Stream Wetland Boundary Surface Water Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11

Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent ⋯ Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

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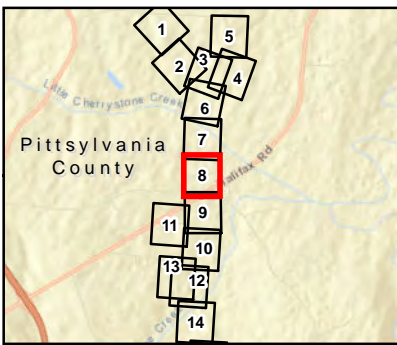


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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600 Willowbrook Ln
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March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area 	<ul style="list-style-type: none"> ▨ Approx. Surface Water ▬ Delineated Wetland Boundary 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot
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<p>Data Sources: ESRI, EQT, TRC</p>		

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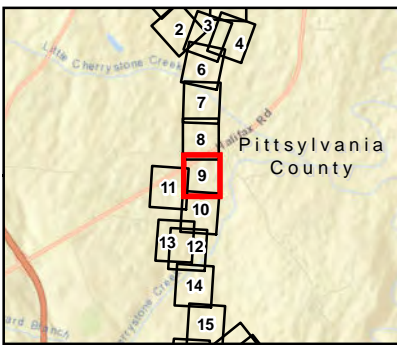


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
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Data Sources: ESRI, EQT, TRC		
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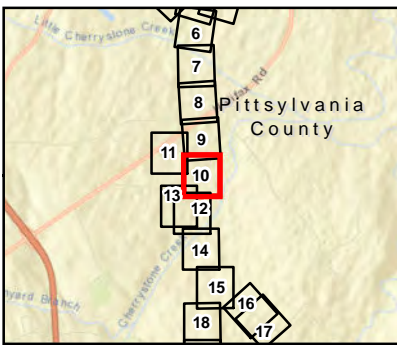
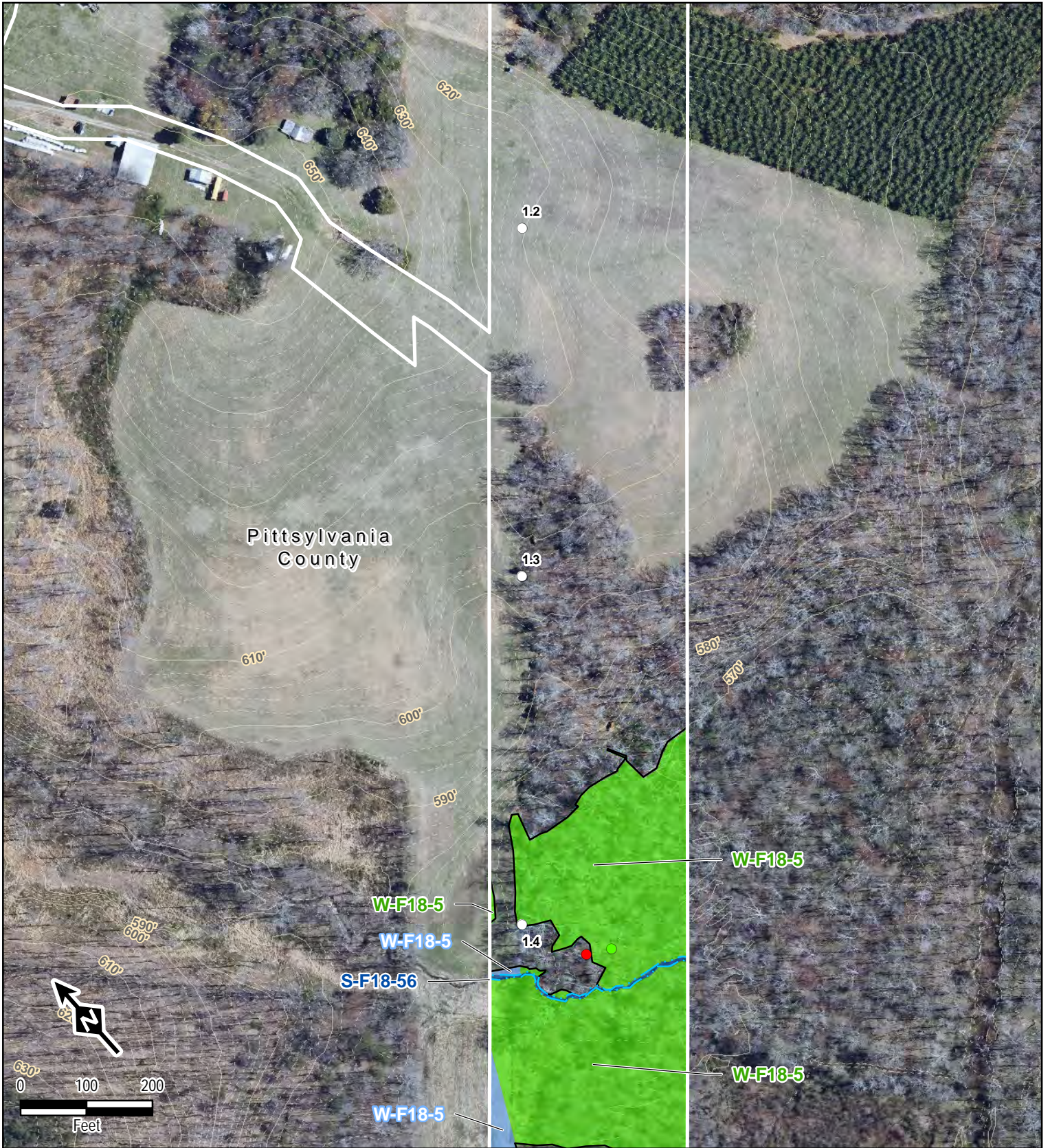


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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Legend		
● Mileposts	▨ Approx. Surface Water	● PSS Data Plot
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Stream Type		
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— Approx. Stream Centerline	— Contours	▨ Wetland
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	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

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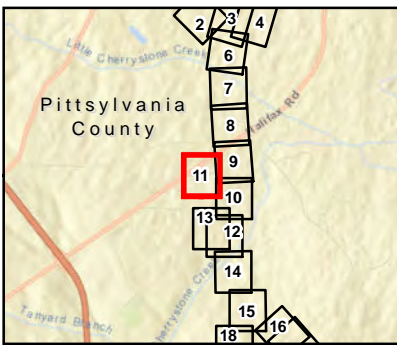


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

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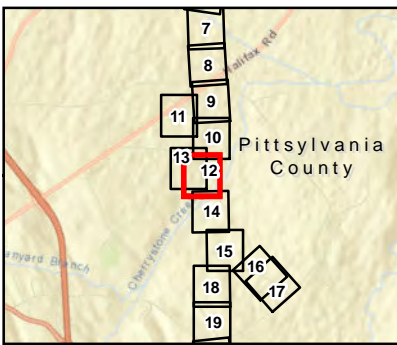


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area 	<ul style="list-style-type: none"> ▨ Approx. Surface Water ▬ Delineated Wetland Boundary 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot
<p>Stream Type</p> <ul style="list-style-type: none"> ▬ Perennial ▬ Intermittent ▬ Ephemeral ▬ Approx. Stream Bank/Edge ▬ Approx. Stream Centerline ▬ Surface Water 	<ul style="list-style-type: none"> ▨ PEM Wetland ▨ PFO Wetland ▨ PSS Wetland ▨ Approx. Wetland ▬ Contours ● PEM Data Plot ● PFO Data Plot 	<p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> ▬ Stream ▬ Wetland Boundary ▨ Surface Water ▨ Wetland
<p>Data Sources: ESRI, EQT, TRC</p>		

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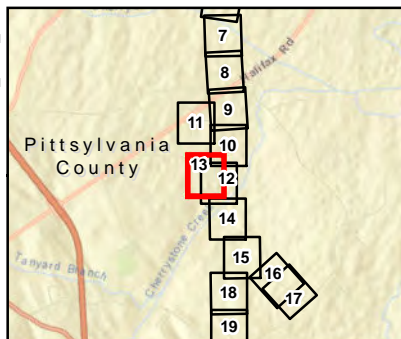


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 12 of 125



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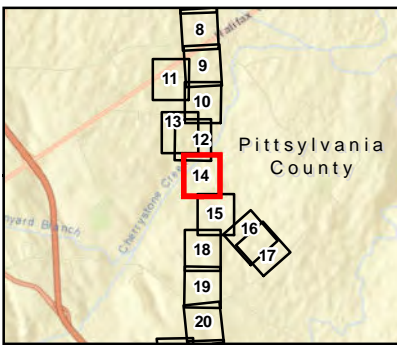
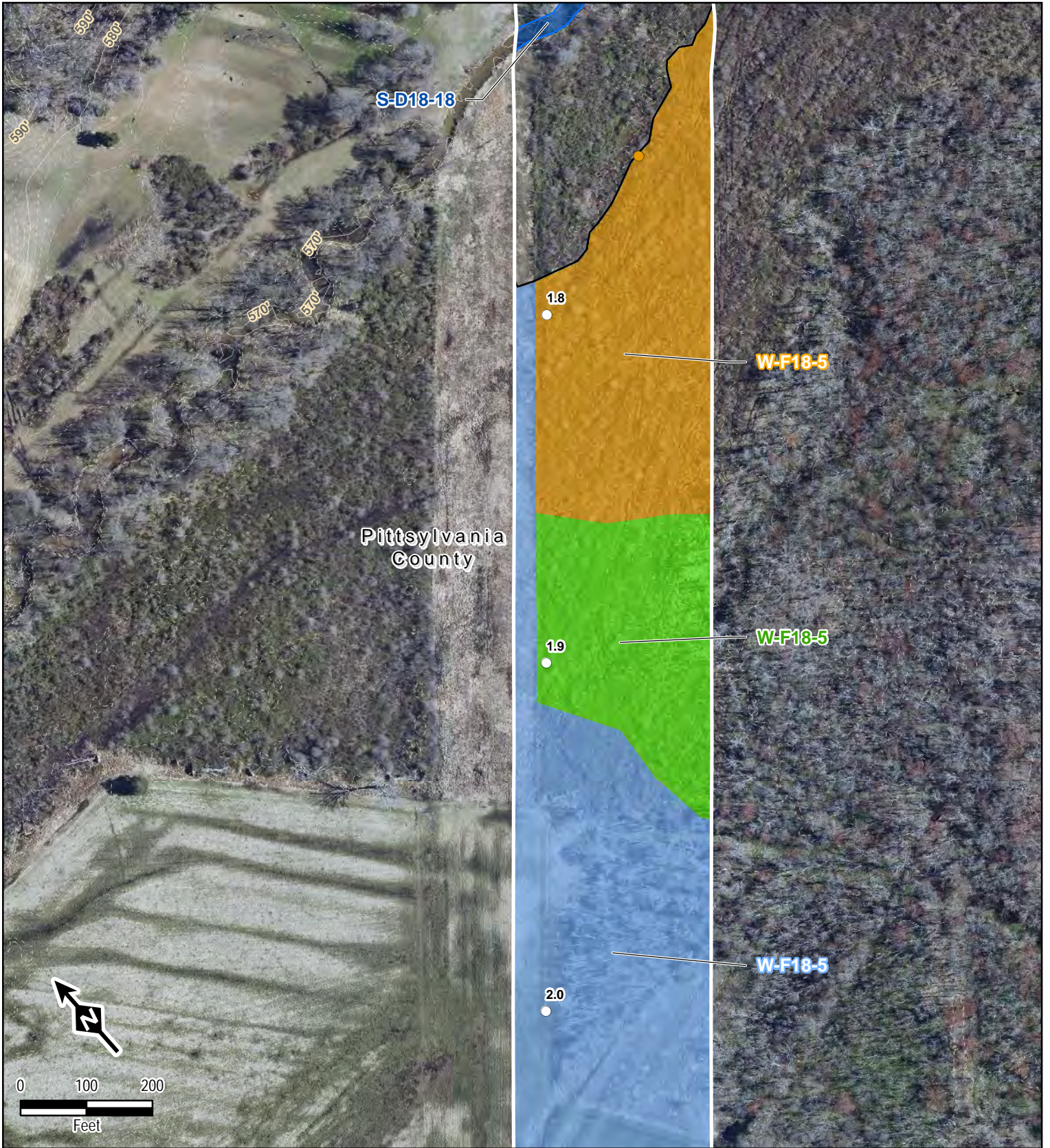


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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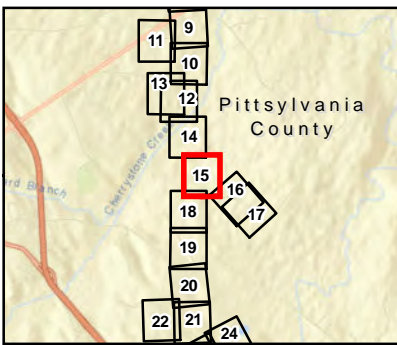
<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary — PEM Wetland — PFO Wetland — PSS Wetland ▨ Approx. Wetland — Contours — PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot <p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> — Stream — Wetland Boundary ▨ Surface Water ▨ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11

Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 14 of 125

600 Willowbrook Ln
West Chester, PA 19382
March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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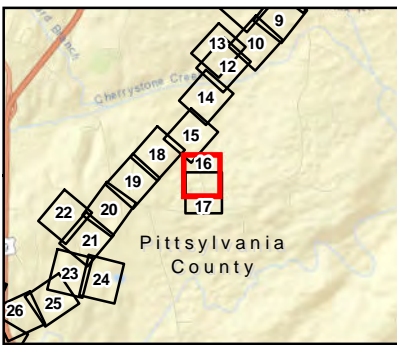


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 15 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend		
Mileposts	Approx. Surface Water	PSS Data Plot
Survey Area	Delineated Wetland Boundary	Upland Data Plot
Stream Type		
Perennial	PEM Wetland	Modified Based On USACE Or State Review
Intermittent	PFO Wetland	
Ephemeral	PSS Wetland	
Approx. Stream Bank/Edge	Approx. Wetland	
Approx. Stream Centerline	Contours	Stream
Surface Water	PEM Data Plot	Wetland Boundary
	PFO Data Plot	Surface Water
		Wetland

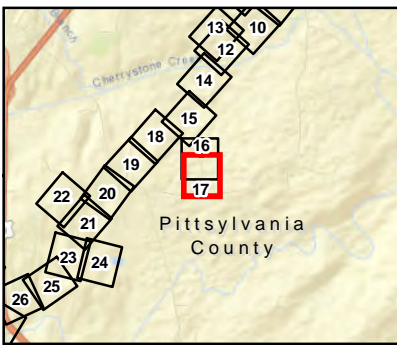
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1 inch = 200 feet when printed 8.5x11

Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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600 Willowbrook Ln
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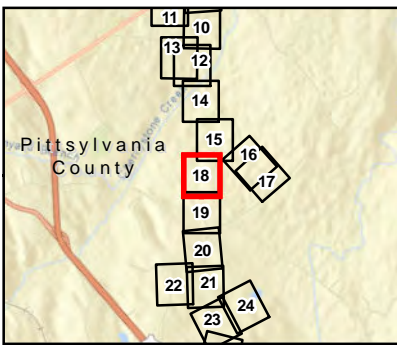
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West Chester, PA 19382
March 2019

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Legend		
● Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
— Intermittent	▨ PFO Wetland	— Stream
— Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



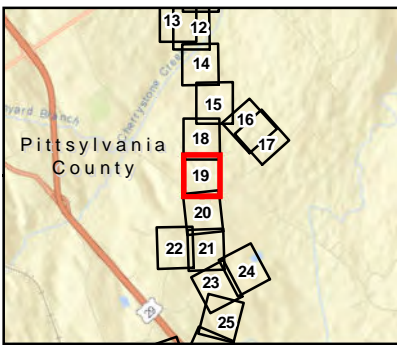


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 18 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ▭ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ▭ PEM Wetland ▭ PFO Wetland ▭ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ▭ Surface Water ▭ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



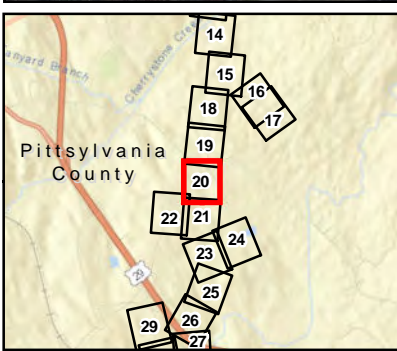


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 19 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral - - - Approx. Stream Bank/Edge - - - Approx. Stream Centerline ▭ Surface Water 	<ul style="list-style-type: none"> ▭ Approx. Surface Water — Delineated Wetland Boundary ▭ PEM Wetland ▭ PFO Wetland ▭ PSS Wetland ▭ Approx. Wetland - - - Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ▭ Surface Water ▭ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



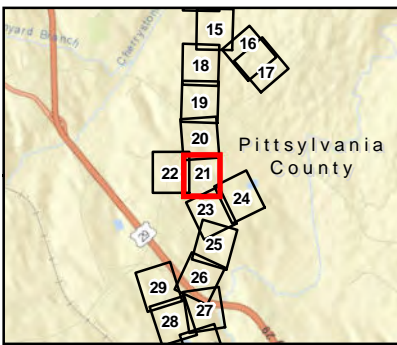


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 20 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019

S:\1-PROJECTS\NEXT\ERA\300423_MVP_Southgate\6-MXD\State_Permittin\Delin_Report\Fig. 4_VA_and_NC_Delineated_Resources_8x11P_2019_March_Supplemental.mxd



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area <p>Stream Type</p> <ul style="list-style-type: none"> — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot <p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



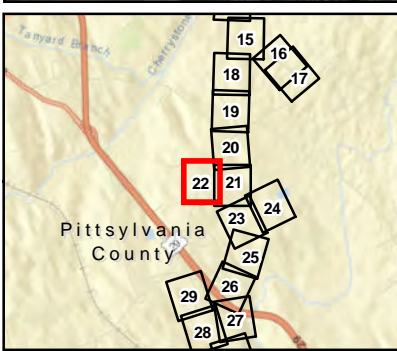


Figure 4
Wetland & Waterway Delineation Maps
 Pittsylvania County, Virginia
 Sheet 21 of 125



600 Willowbrook Ln
 West Chester, PA 19382
 March 2019



Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type	▨ PEM Wetland	Modified Based On USACE Or State Review
— Perennial	▨ PFO Wetland	— Stream
- - - Intermittent	▨ PSS Wetland	— Wetland Boundary
· · · Ephemeral	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Bank/Edge	— Contours	▨ Wetland
— Approx. Stream Centerline	● PEM Data Plot	
▨ Surface Water	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



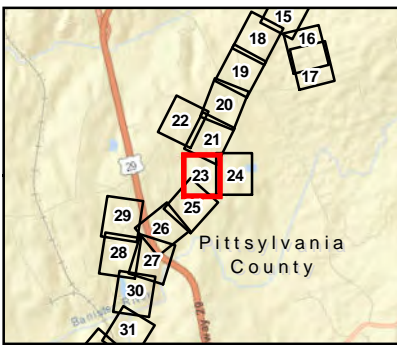


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 22 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019

S:\1-PROJECTS\NEXT\ERA\300423_MVP_Southgate\6-MXD\State_Permitting\Delin_Report\Fig. 4_VA_and_NC_Delineated_Resources_8x11P_2019_March_Supplemental.mxd



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral - - - Approx. Stream Bank/Edge - - - Approx. Stream Centerline ▭ Surface Water 	<ul style="list-style-type: none"> ▭ Approx. Surface Water — Delineated Wetland Boundary ▭ PEM Wetland ▭ PFO Wetland ▭ PSS Wetland ▭ Approx. Wetland — Contours ○ PEM Data Plot ○ PFO Data Plot 	<ul style="list-style-type: none"> ○ PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ▭ Surface Water ▭ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



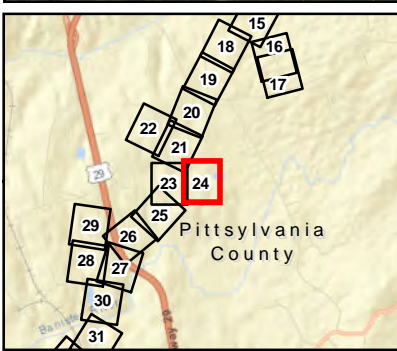
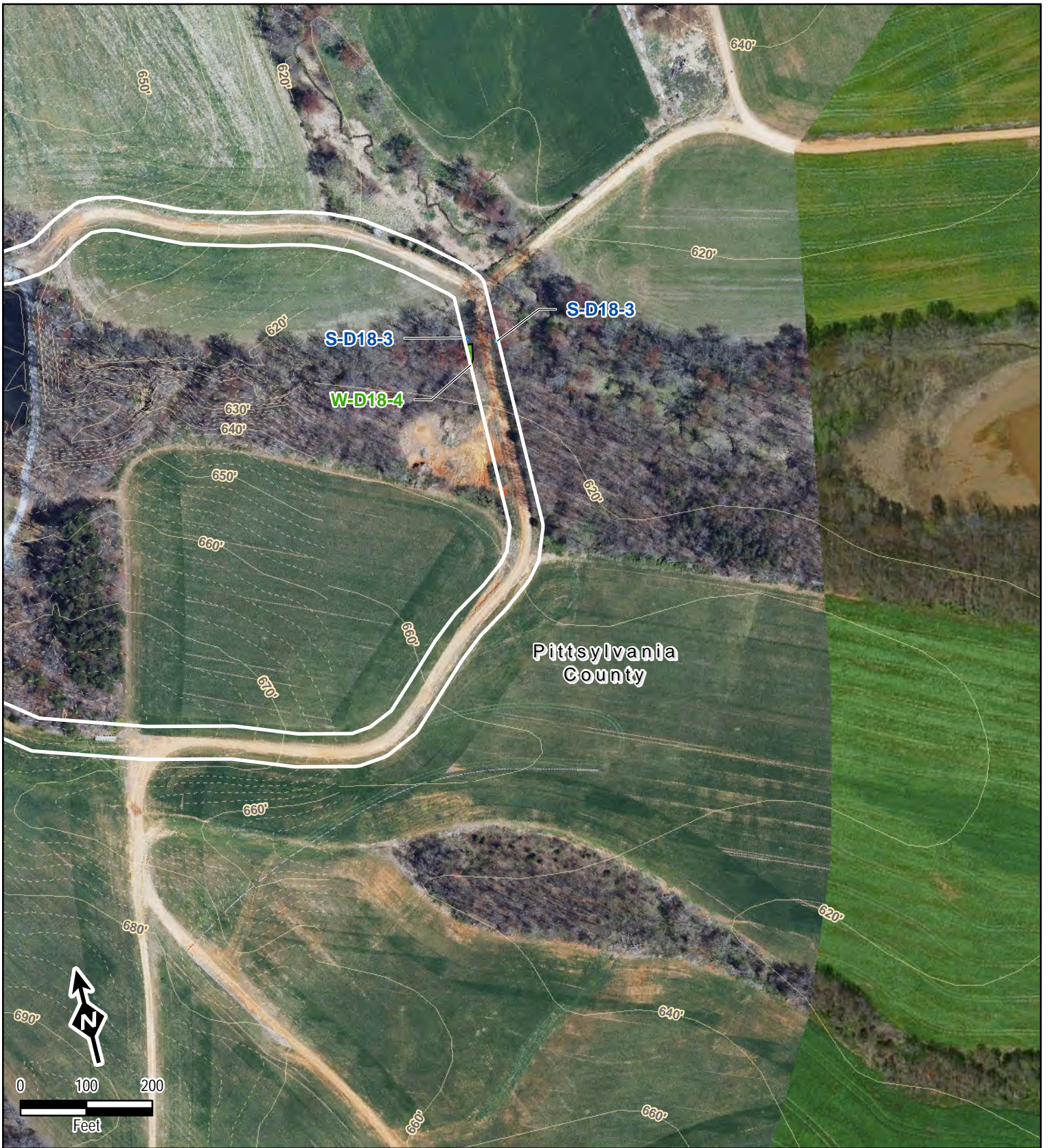


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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600 Willowbrook Ln
West Chester, PA 19382
March 2019

S:\1-PROJECTS\NEXT\ERA\300423_MVP_Southgate\6-MXD\State_Permitting\Delin_Report\Fig. 4_VA_and_NC_Delineated_Resources_8x11P_2019_March_Supplemental.mxd



Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
· · · Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11





Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 24 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019

S:\1-PROJECTS\NEXT\ERA\300423_MVP_Southgate\6-MXD\State_Permitting\Delin_Report\Fig. 4_VA_and_NC_Delineated_Resources_8x11P_2019_March_Supplemental.mxd



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	■ Surface Water
— Approx. Stream Bank/Edge	■ Wetland
— Approx. Stream Centerline	
■ Surface Water	
▨ Approx. Surface Water	
— Delineated Wetland Boundary	
■ PEM Wetland	
■ PFO Wetland	
■ PSS Wetland	
▨ Approx. Wetland	
— Contours	
● PEM Data Plot	
● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



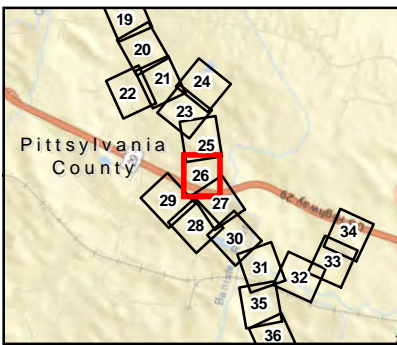


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 25 of 125



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West Chester, PA 19382
March 2019

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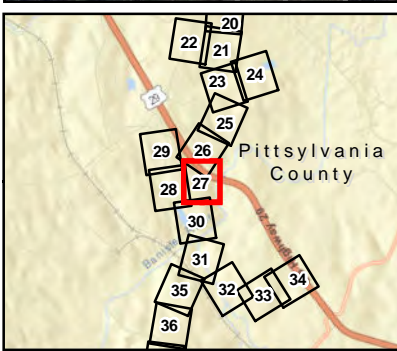
Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	▬ Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
⋯ Ephemeral	▨ PSS Wetland	— Wetland Boundary
▬ Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	▬ Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11

Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 26 of 125

600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	▬ Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
▬ Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
▬ Intermittent	▨ PFO Wetland	▬ Stream
▬ Ephemeral	▨ PSS Wetland	▬ Wetland Boundary
▬ Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
▬ Approx. Stream Centerline	▬ Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



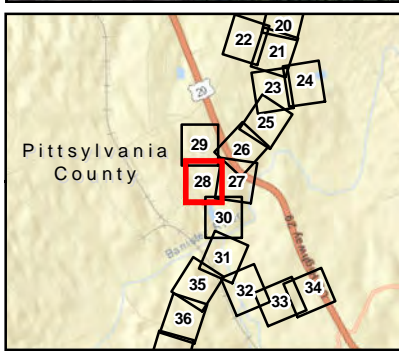


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 27 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



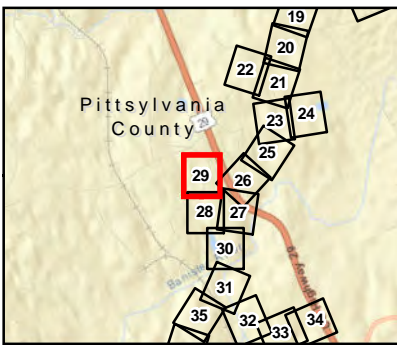


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 28 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend		
Mileposts	Approx. Surface Water	PSS Data Plot
Survey Area	Delineated Wetland Boundary	Upland Data Plot
Stream Type		
Perennial	PEM Wetland	Modified Based On USACE Or State Review
Intermittent	PFO Wetland	
Ephemeral	PSS Wetland	
Approx. Stream Bank/Edge	Approx. Wetland	
Approx. Stream Centerline	Contours	
Surface Water	PEM Data Plot	Stream
	PFO Data Plot	Wetland Boundary
		Surface Water
		Wetland

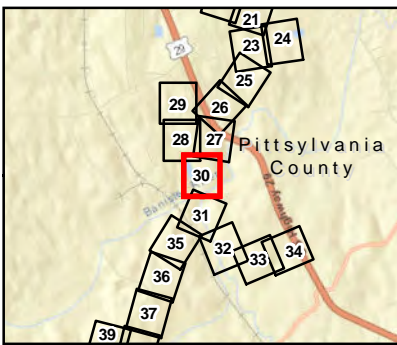
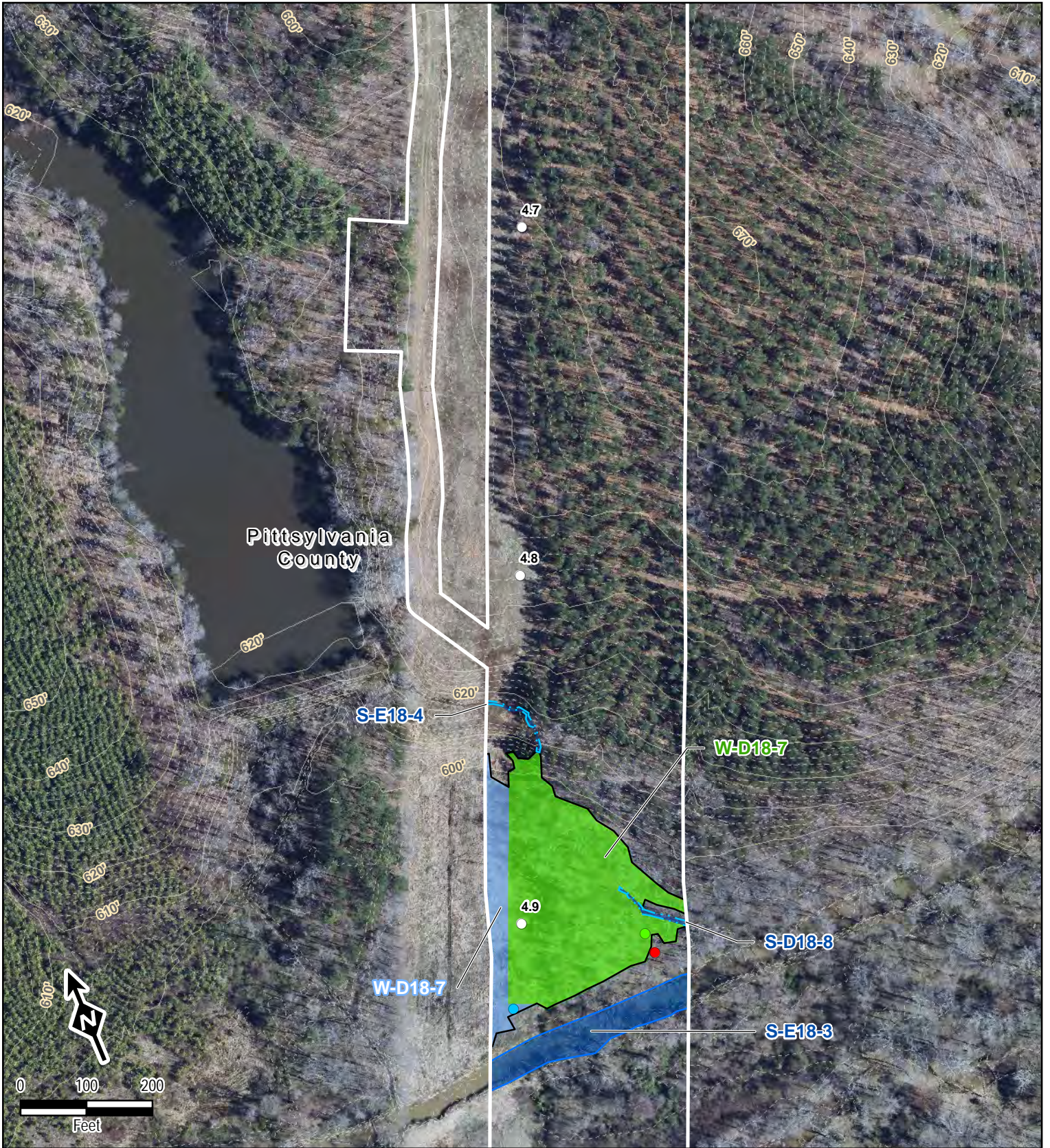
Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11

Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 29 of 125

600 Willowbrook Ln
West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area <p>Stream Type</p> <ul style="list-style-type: none"> — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot <p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



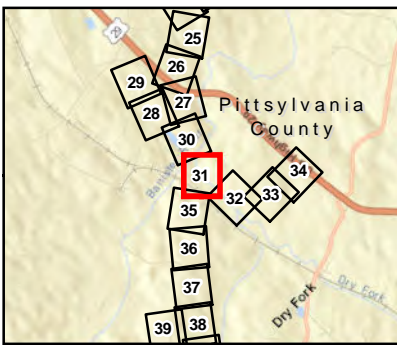


Figure 4
Wetland & Waterway Delineation Maps
 Pittsylvania County, Virginia
 Sheet 30 of 125



600 Willowbrook Ln
 West Chester, PA 19382
 March 2019

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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	▬ Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
▬ Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
▬ Intermittent	▨ PFO Wetland	▬ Stream
▬ Ephemeral	▨ PSS Wetland	▬ Wetland Boundary
▬ Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
▬ Approx. Stream Centerline	▬ Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	
Data Sources: ESRI, EQT, TRC		
1 inch = 200 feet when printed 8.5x11		



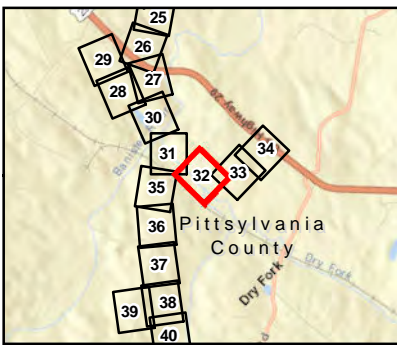


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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600 Willowbrook Ln
West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent ⋯ Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ▭ Surface Water 	<ul style="list-style-type: none"> ▭ Approx. Surface Water — Delineated Wetland Boundary ▭ PEM Wetland ▭ PFO Wetland ▭ PSS Wetland ▭ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ▭ Surface Water ▭ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



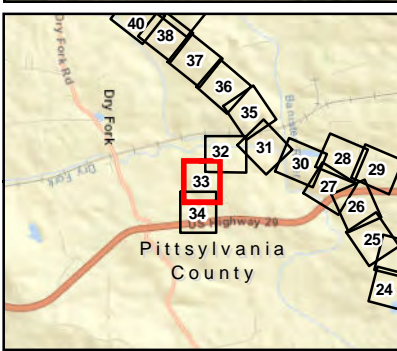


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 32 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



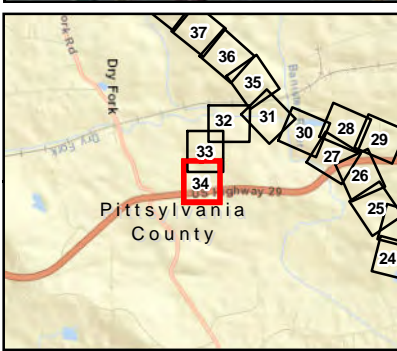
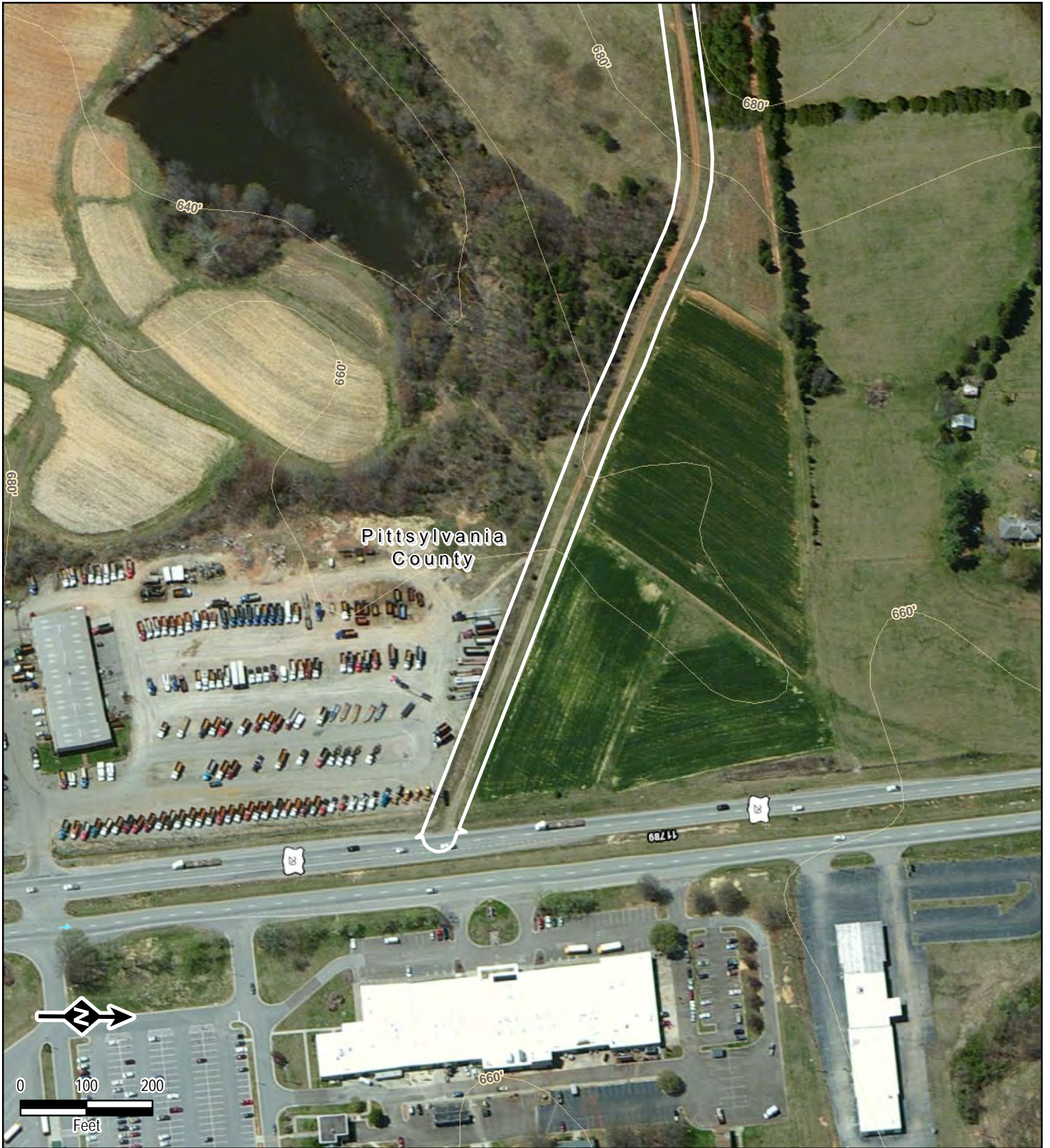


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 33 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019

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Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



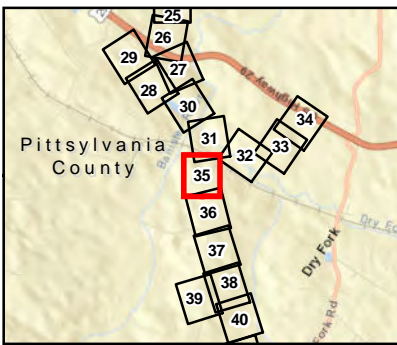


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 34 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



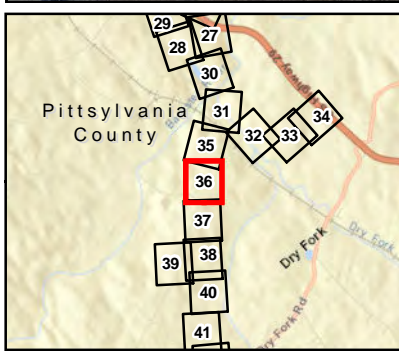


Figure 4
Wetland & Waterway Delineation Maps
 Pittsylvania County, Virginia
 Sheet 35 of 125



600 Willowbrook Ln
 West Chester, PA 19382
 March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area 	<ul style="list-style-type: none"> ▨ Approx. Surface Water ▬ Delineated Wetland Boundary 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot
<p>Stream Type</p> <ul style="list-style-type: none"> ▬ Perennial ▬ Intermittent ▬ Ephemeral ▬ Approx. Stream Bank/Edge ▬ Approx. Stream Centerline ▬ Surface Water 	<ul style="list-style-type: none"> ▨ PEM Wetland ▨ PFO Wetland ▨ PSS Wetland ▨ Approx. Wetland ▬ Contours ● PEM Data Plot ● PFO Data Plot 	<p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> ▬ Stream ▬ Wetland Boundary ▨ Surface Water ▨ Wetland
<p>Data Sources: ESRI, EQT, TRC</p>		
<p>1 inch = 200 feet when printed 8.5x11</p>		



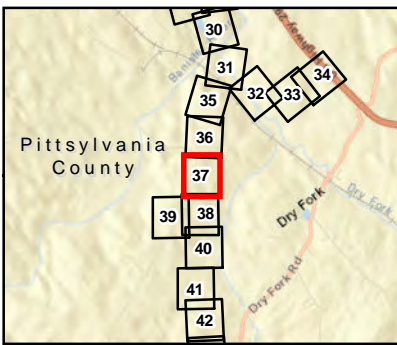


Figure 4
Wetland & Waterway Delineation Maps
 Pittsylvania County, Virginia
 Sheet 36 of 125



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 West Chester, PA 19382
 March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
--	--	---

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



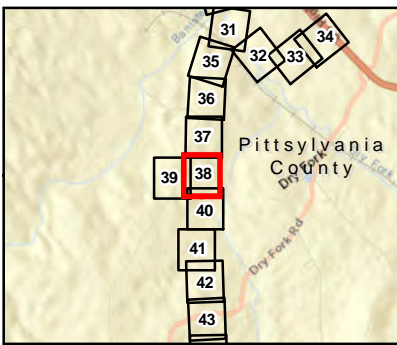


Figure 4
Wetland & Waterway Delineation Maps
 Pittsylvania County, Virginia
 Sheet 37 of 125



600 Willowbrook Ln
 West Chester, PA 19382
 March 2019



Legend	
○ Mileposts	○ PSS Data Plot
□ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
— Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
— PEM Wetland	
— PFO Wetland	
— PSS Wetland	
— Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



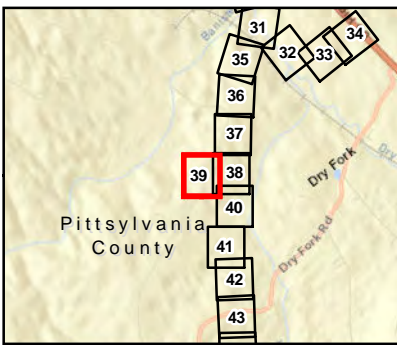


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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600 Willowbrook Ln
West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent ⋯ Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
<p>Data Sources: ESRI, EQT, TRC</p>		
<p>1 inch = 200 feet when printed 8.5x11</p>		



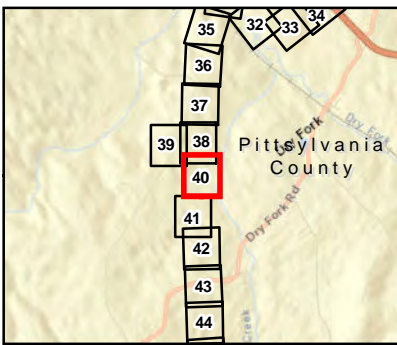


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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600 Willowbrook Ln
West Chester, PA 19382
March 2019

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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
⋯ Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11

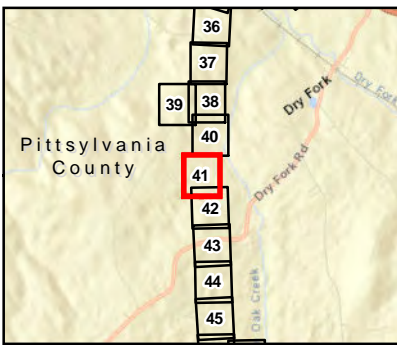
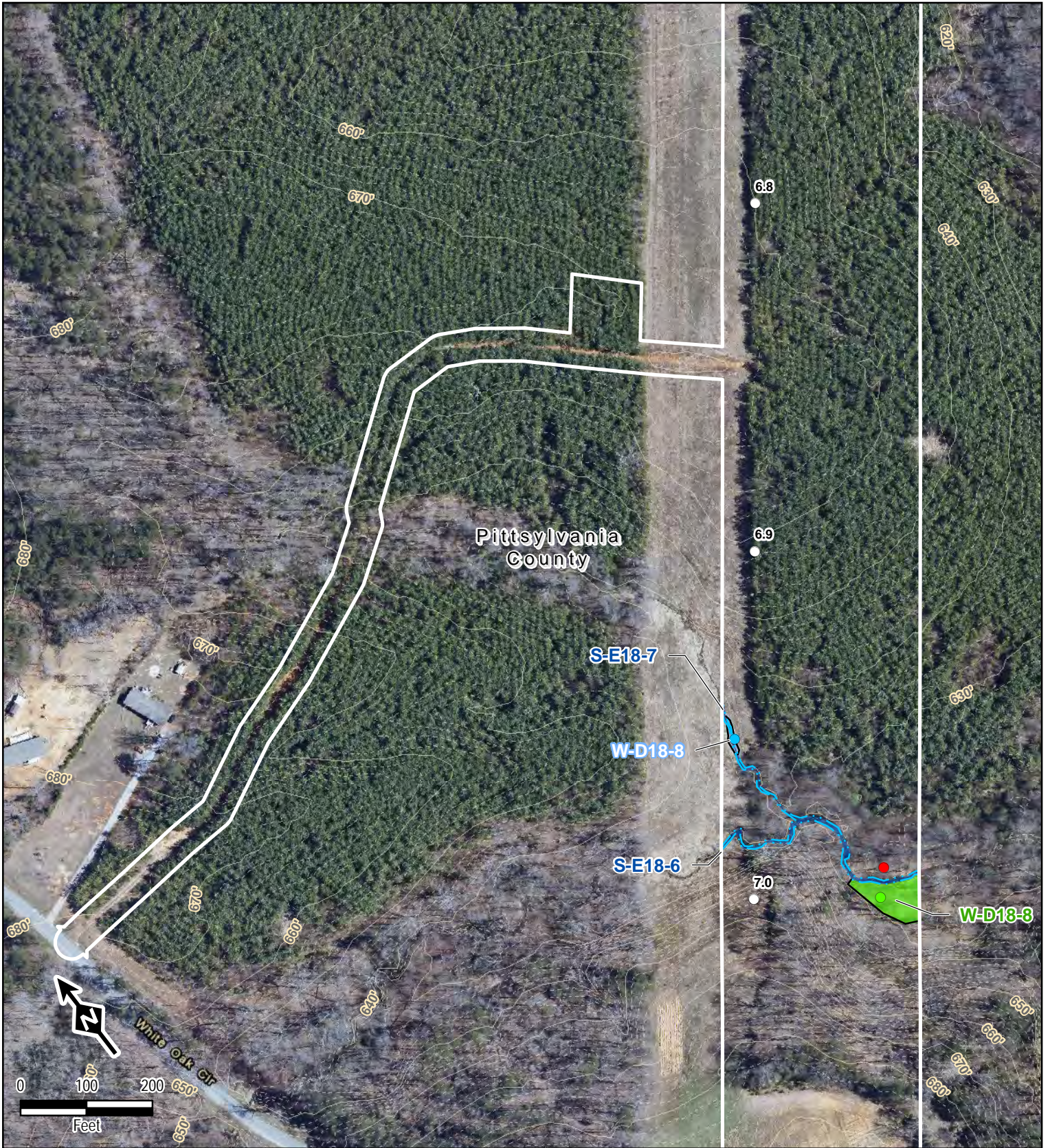
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Figure 4
Wetland & Waterway Delineation Maps
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TRC
Results you can rely on

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral - - - Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



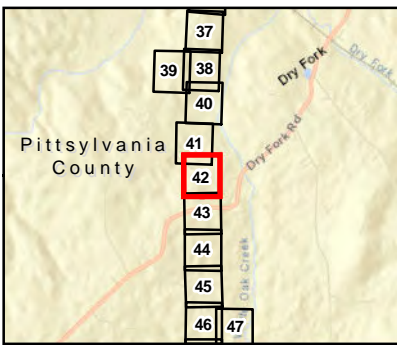
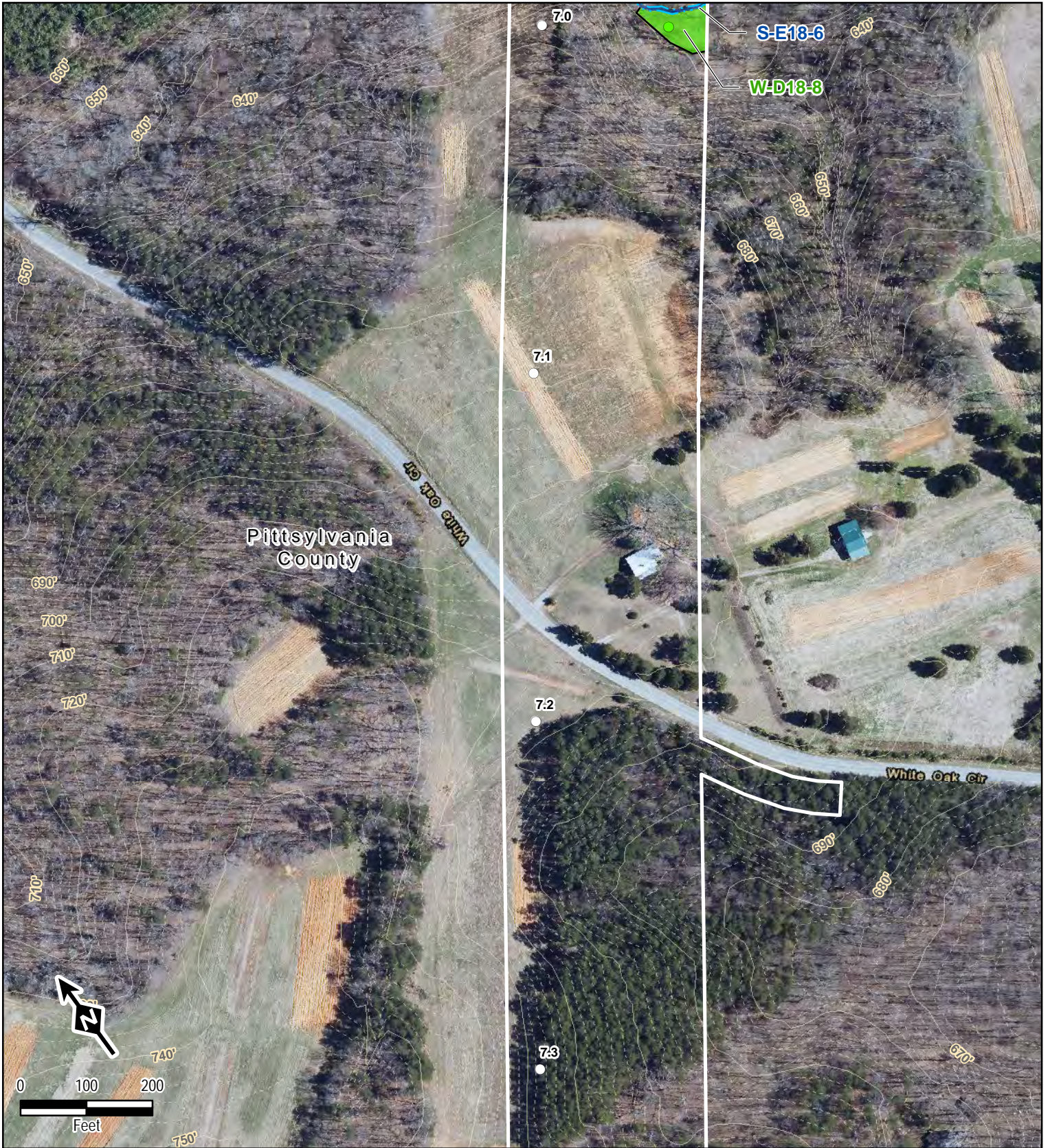


Figure 4
Wetland & Waterway Delineation Maps
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West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



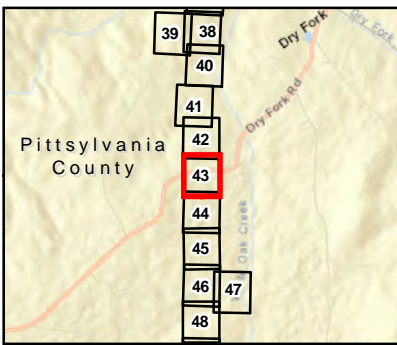
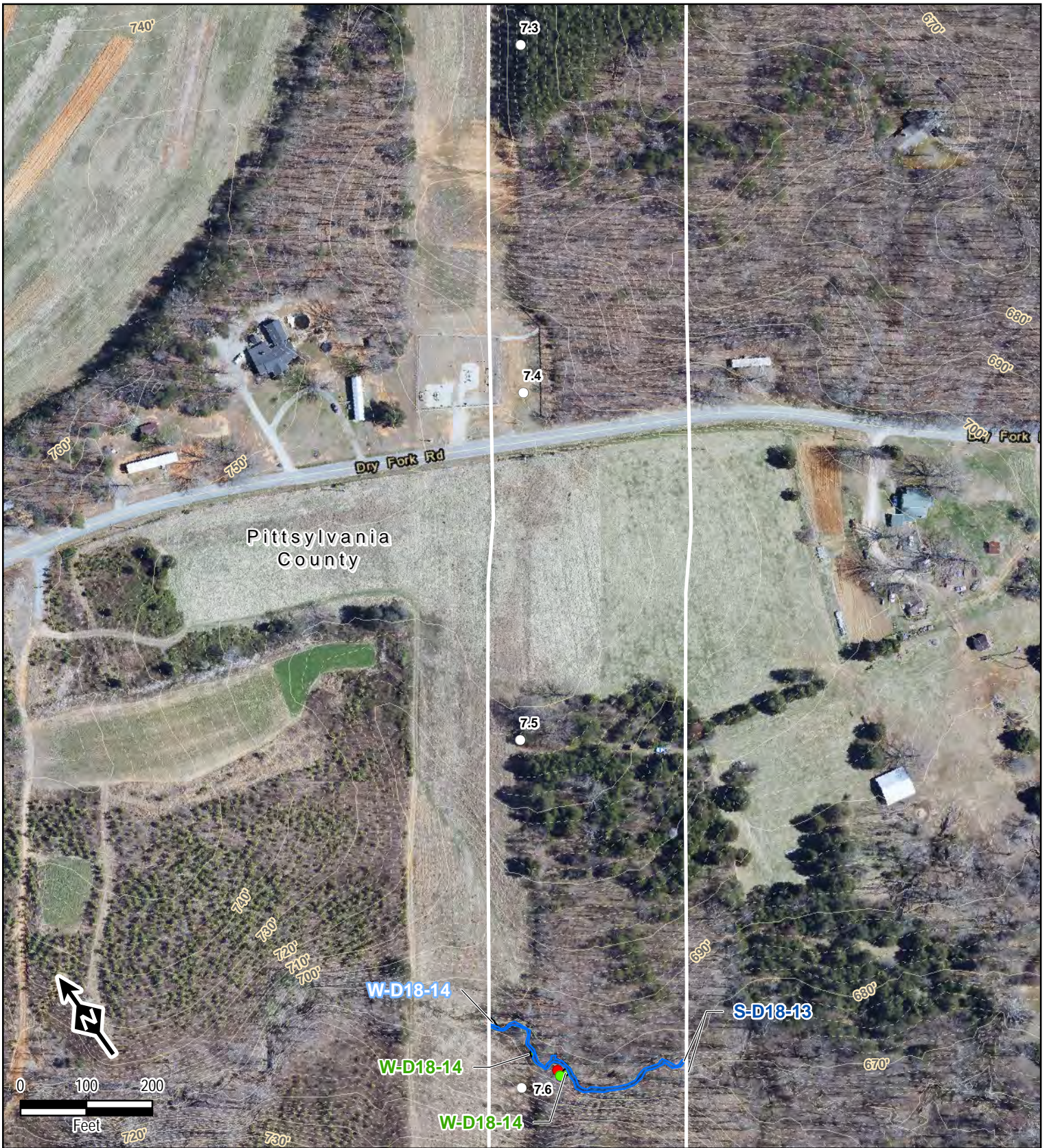


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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600 Willowbrook Ln
West Chester, PA 19382
March 2019

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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
⋯ Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



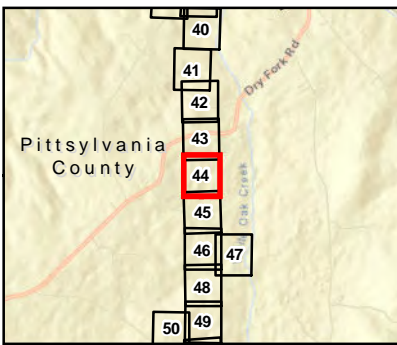
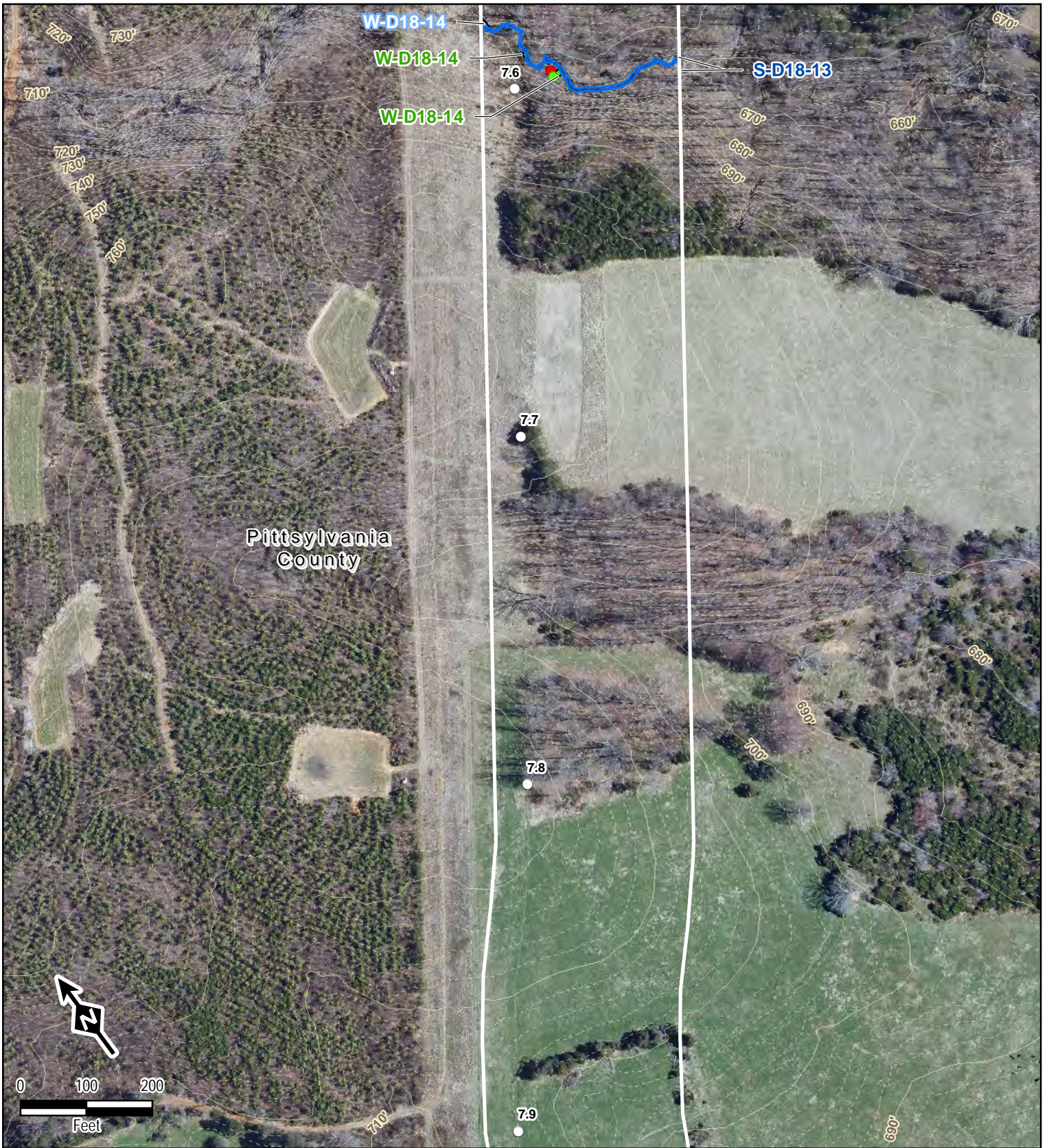


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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600 Willowbrook Ln
West Chester, PA 19382
March 2019

S:\1-PROJECTS\NEXT\ERA\300423_MVP_Souhgate\6-MXD\State_Permittin\Delin_Report\Fig. 4_VA_and_NC_Delineated_Resources_8x11P_2019_March_Supplemental.mxd



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



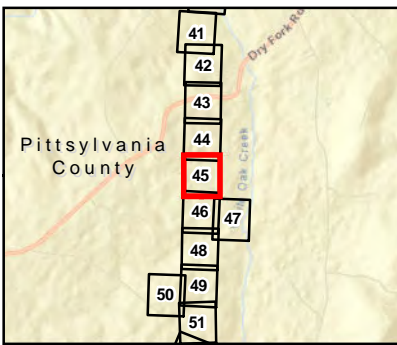


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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600 Willowbrook Ln
West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



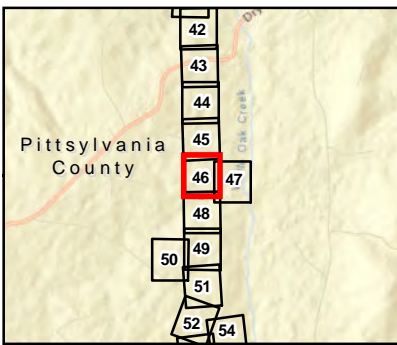


Figure 4
Wetland & Waterway Delineation Maps
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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral - - - Approx. Stream Bank/Edge - - - Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



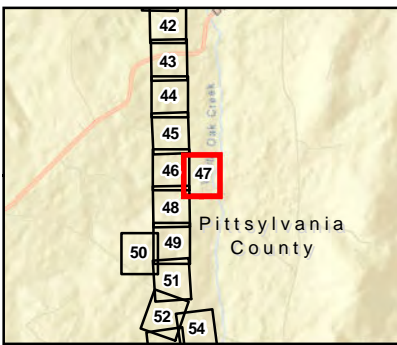


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
<p>Data Sources: ESRI, EQT, TRC</p>		
<p>1 inch = 200 feet when printed 8.5x11</p>		



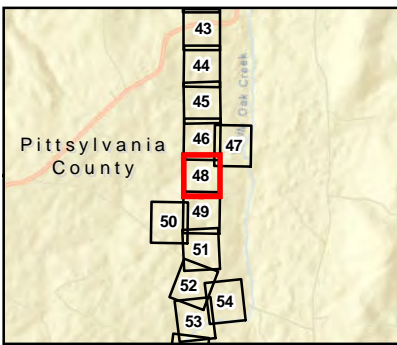
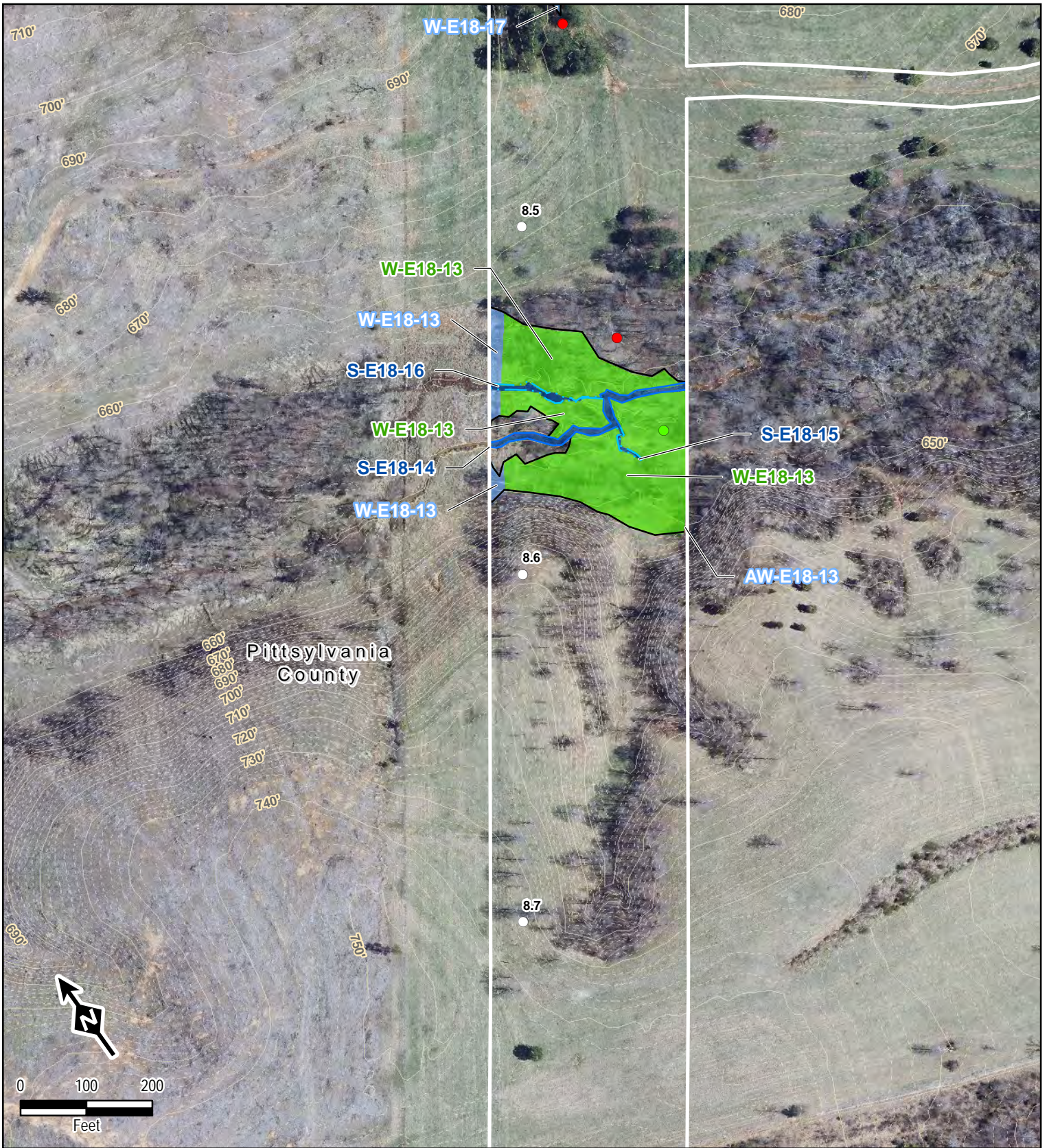


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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600 Willowbrook Ln
West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral - - - Approx. Stream Bank/Edge - - - Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



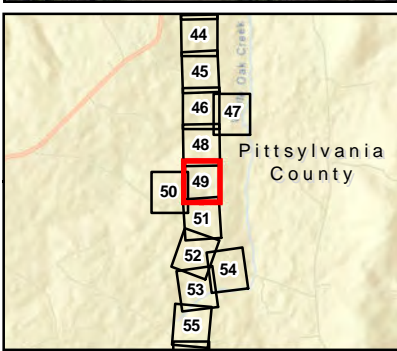


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 48 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
⋯ Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

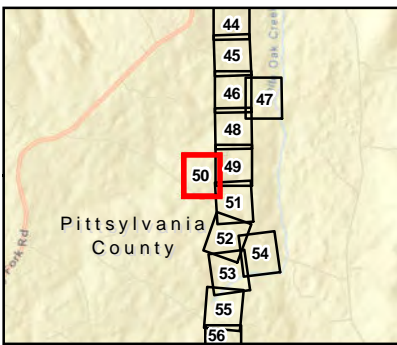
1 inch = 200 feet when printed 8.5x11

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Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 49 of 125

TRC
600 Willowbrook Ln
West Chester, PA 19382
March 2019

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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
⋯ Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

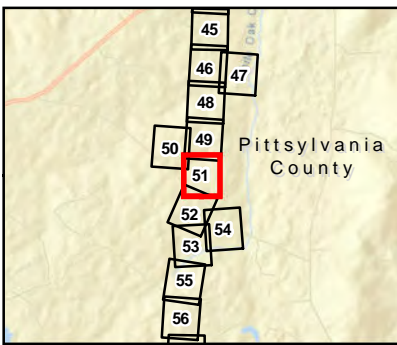
Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11

Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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West Chester, PA 19382
March 2019

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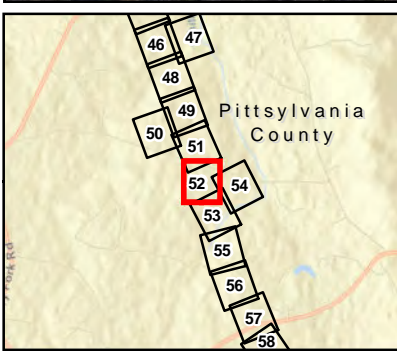
Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
- · - · - Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11

Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 51 of 125

600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend		
● Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
- · - · Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

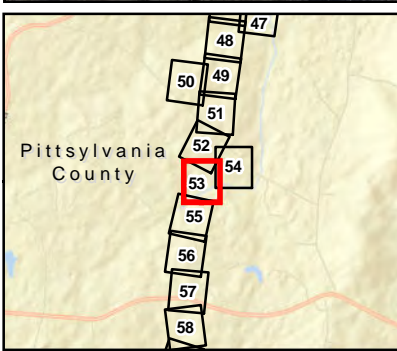
Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11

Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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West Chester, PA 19382
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Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	■ Surface Water
— Approx. Stream Bank/Edge	■ Wetland
— Approx. Stream Centerline	— Contours
■ Surface Water	● PEM Data Plot
■ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
■ PEM Wetland	
■ PFO Wetland	
■ PSS Wetland	
■ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



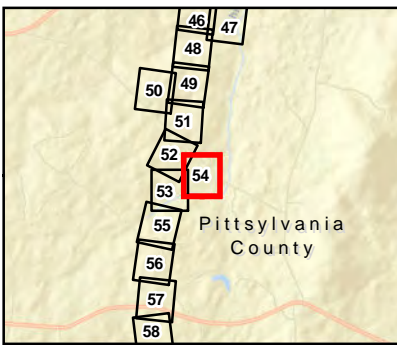


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 53 of 125



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West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11





Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 54 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



<ul style="list-style-type: none"> Mileposts Survey Area 	<ul style="list-style-type: none"> Approx. Surface Water Delineated Wetland Boundary PEM Wetland PFO Wetland PSS Wetland Approx. Wetland Contours PEM Data Plot PFO Data Plot 	<ul style="list-style-type: none"> PSS Data Plot Upland Data Plot
<p>Stream Type</p> <ul style="list-style-type: none"> Perennial Intermittent Ephemeral Approx. Stream Bank/Edge Approx. Stream Centerline Surface Water 	<p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> Stream Wetland Boundary Surface Water Wetland 	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



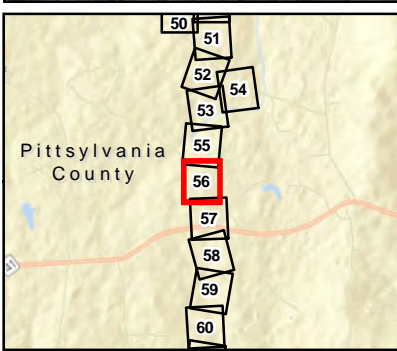


Figure 4
Wetland & Waterway Delineation Maps
 Pittsylvania County, Virginia
 Sheet 55 of 125



600 Willowbrook Ln
 West Chester, PA 19382
 March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral - - - Approx. Stream Bank/Edge - - - Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland - - - Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



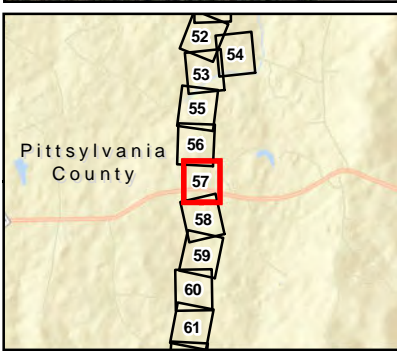
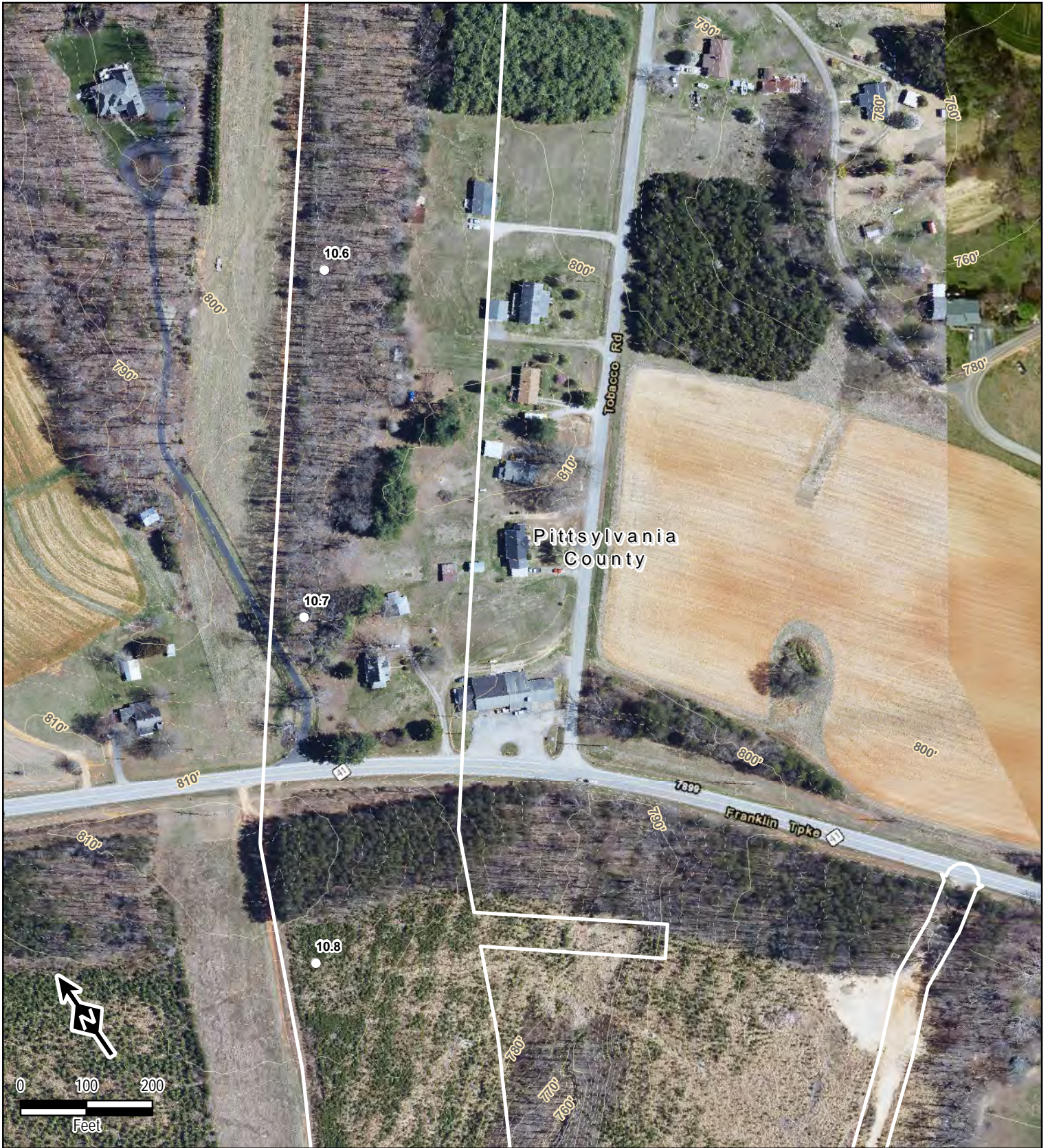


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 56 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



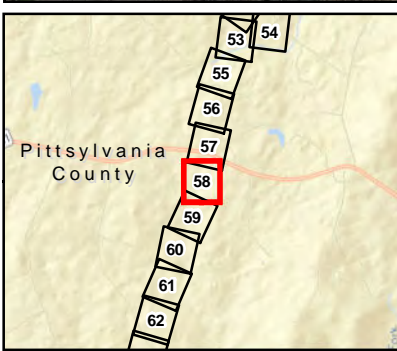
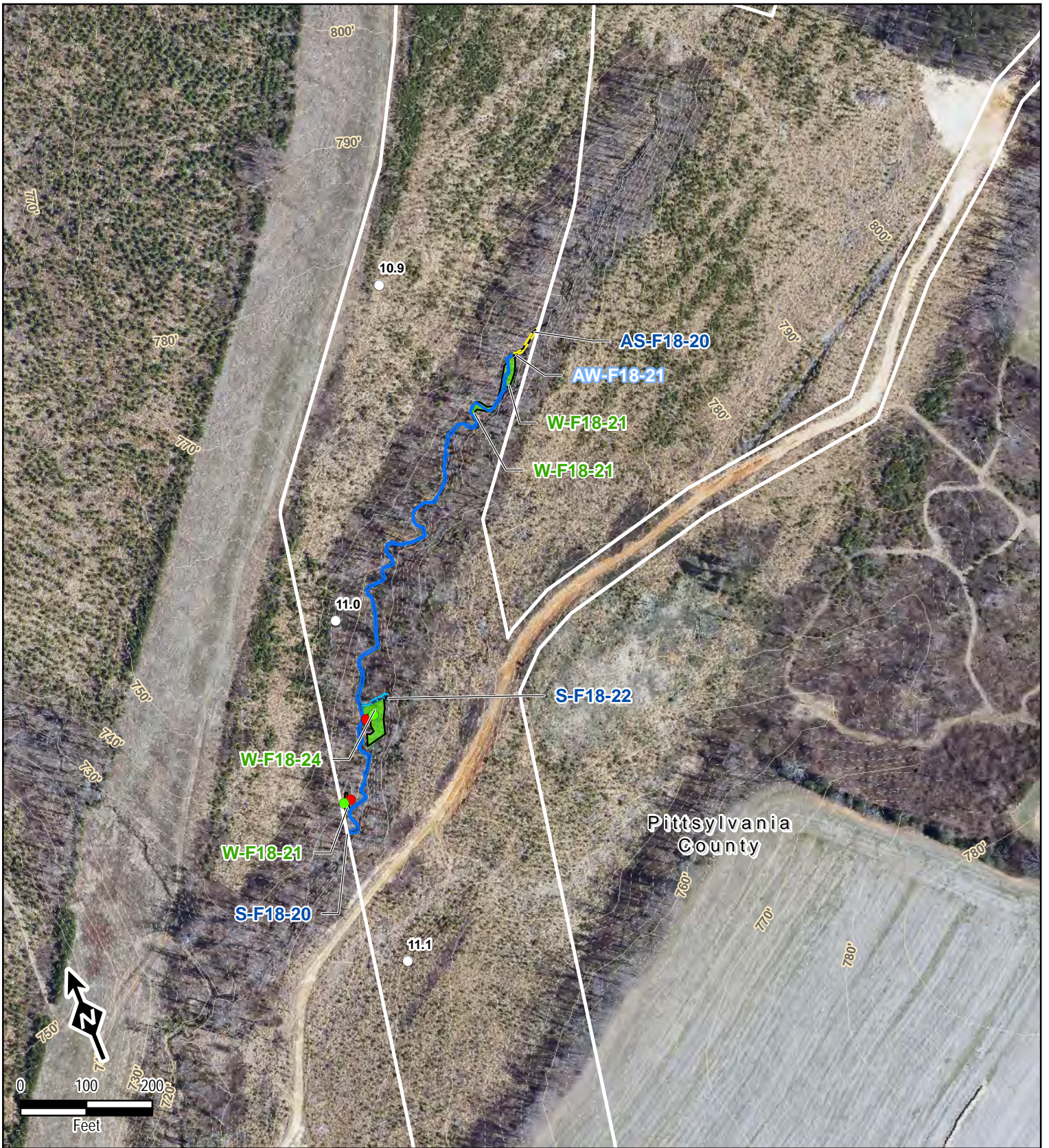


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 57 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019

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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type	▨ PEM Wetland	Modified Based On USACE Or State Review
— Perennial	▨ PFO Wetland	— Stream
- - - Intermittent	▨ PSS Wetland	— Wetland Boundary
⋯ Ephemeral	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Bank/Edge	— Contours	▨ Wetland
— Approx. Stream Centerline	● PEM Data Plot	
▨ Surface Water	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



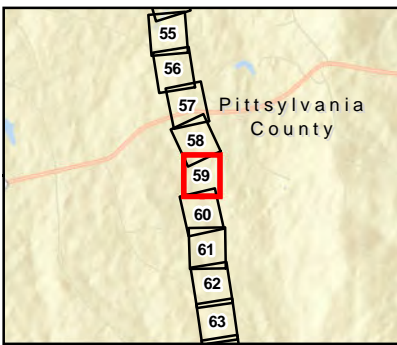
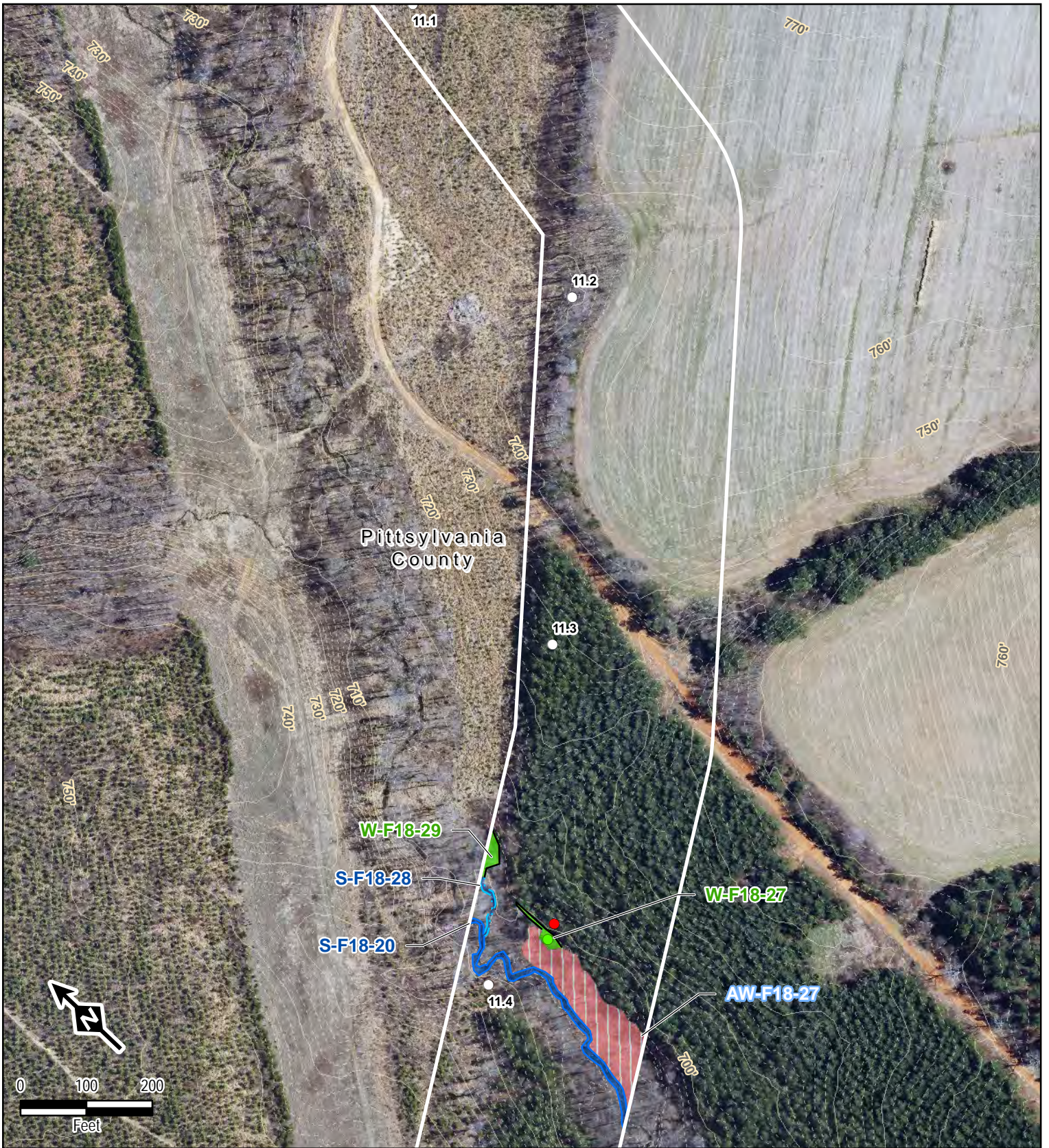


Figure 4
Wetland & Waterway Delineation Maps
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600 Willowbrook Ln
West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



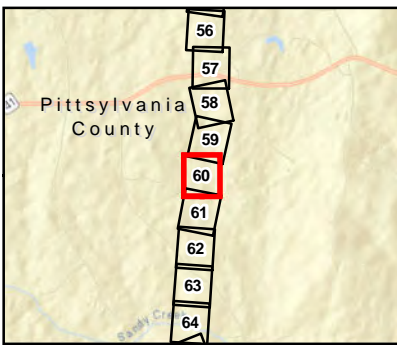
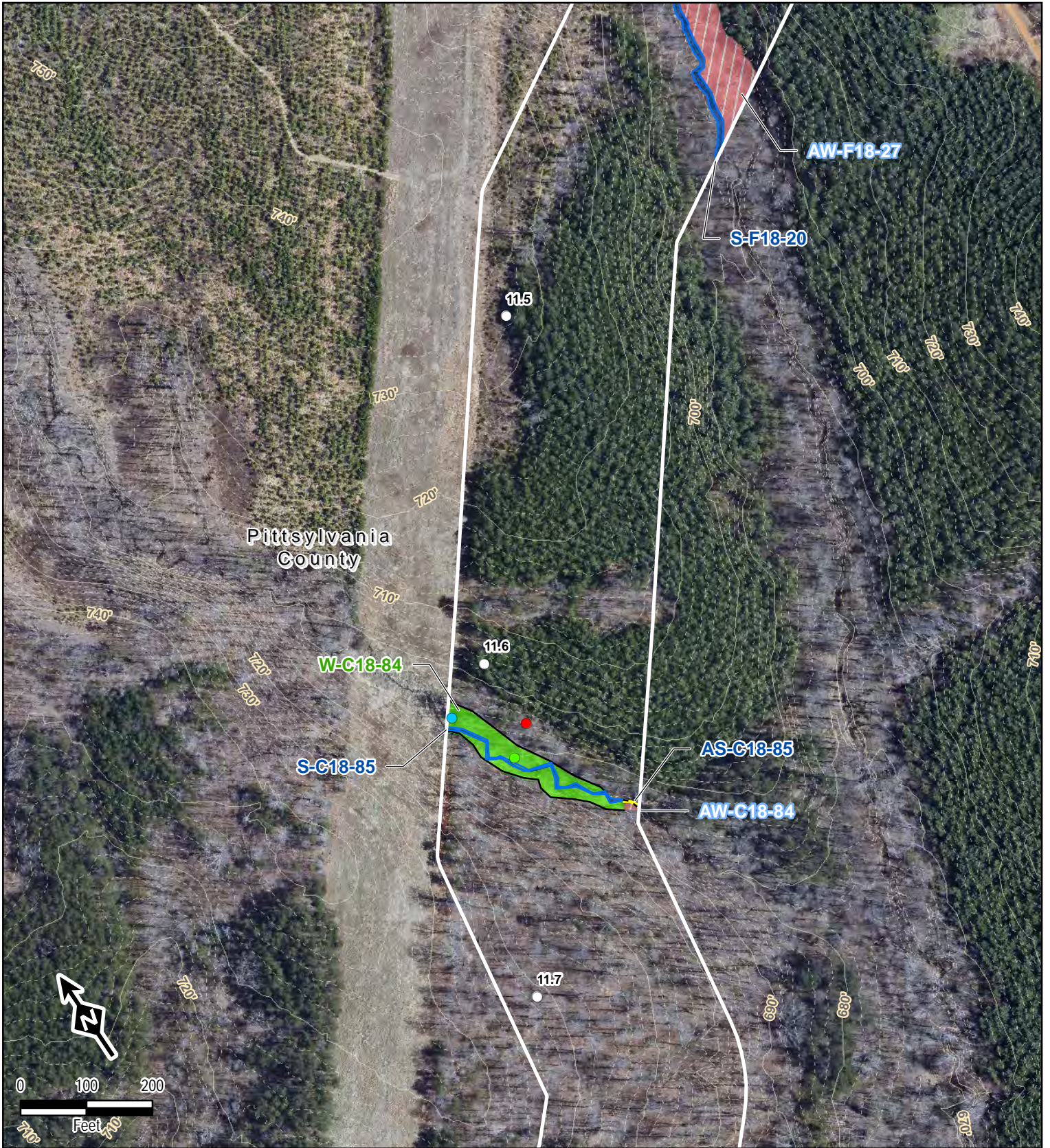


Figure 4
Wetland & Waterway Delineation Maps
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West Chester, PA 19382
March 2019

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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
- · - · - Ephemeral	▨ PSS Wetland	— Wetland Boundary
▨ Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

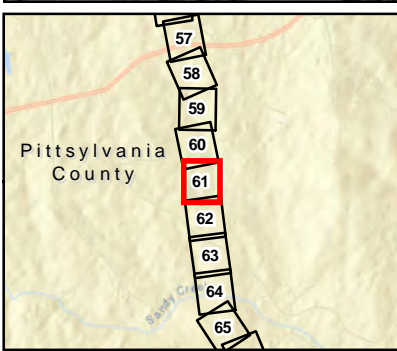
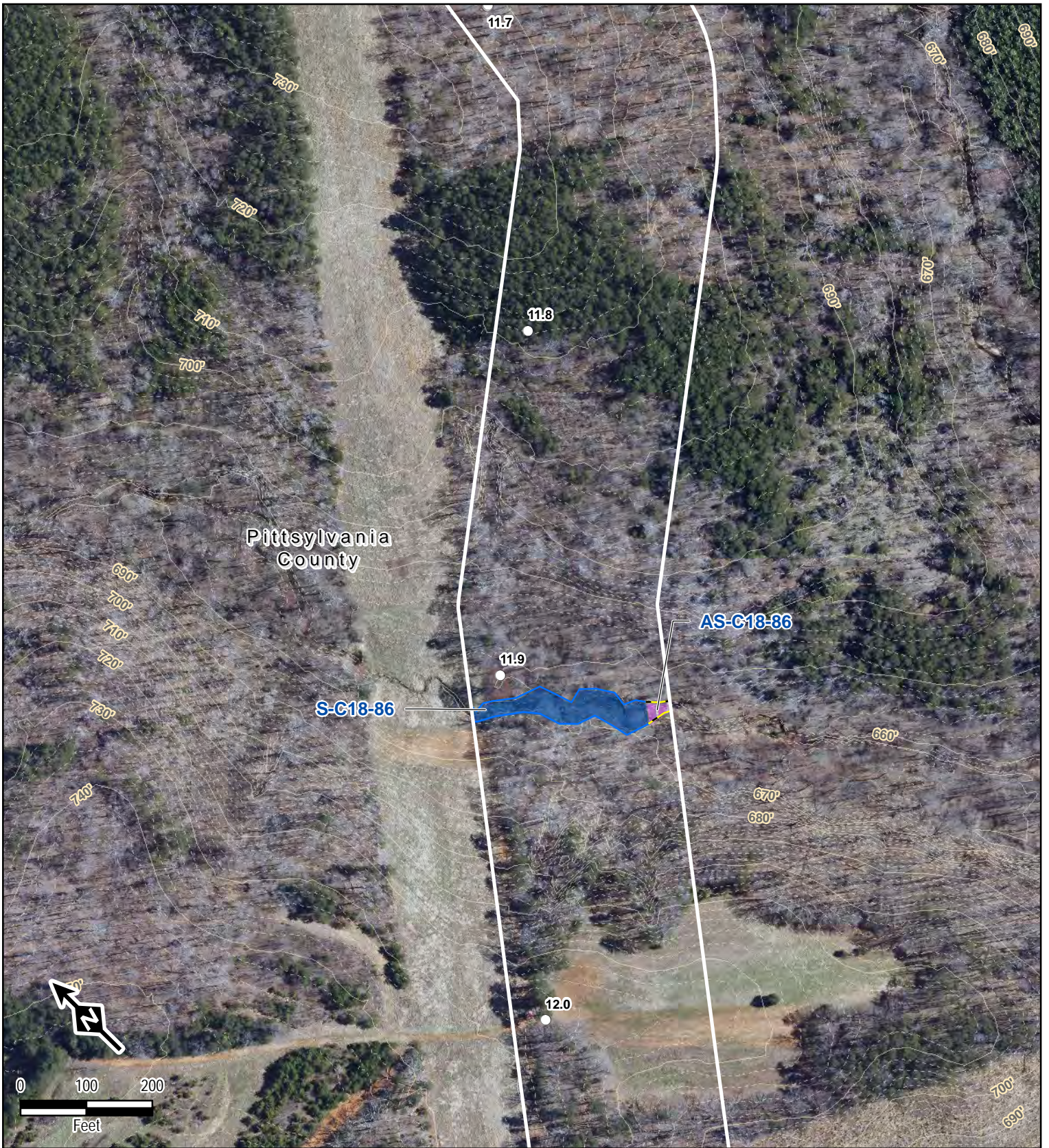
Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11

Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
⋯ Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



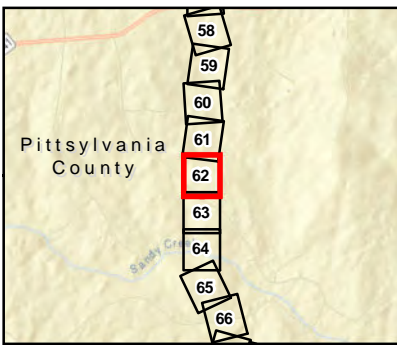


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



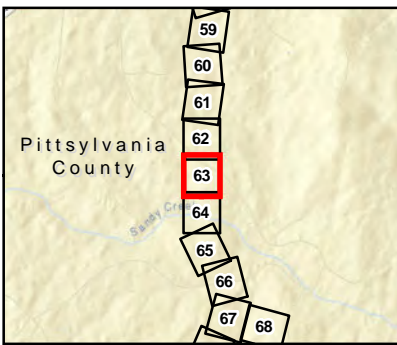


Figure 4
Wetland & Waterway Delineation Maps
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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ▭ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ▭ PEM Wetland ▭ PFO Wetland ▭ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ▭ Surface Water ▭ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



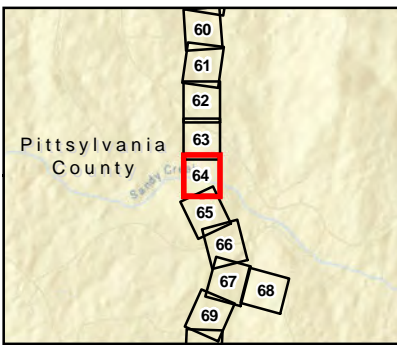


Figure 4
Wetland & Waterway Delineation Maps
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<ul style="list-style-type: none"> Mileposts Survey Area Stream Type Perennial Intermittent Ephemeral Approx. Stream Bank/Edge Approx. Stream Centerline Surface Water 	<ul style="list-style-type: none"> Approx. Surface Water Delineated Wetland Boundary PEM Wetland PFO Wetland PSS Wetland Approx. Wetland Contours PEM Data Plot PFO Data Plot 	<ul style="list-style-type: none"> PSS Data Plot Upland Data Plot Modified Based On USACE Or State Review Stream Wetland Boundary Surface Water Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



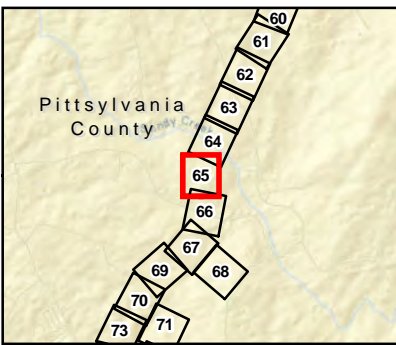


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 64 of 125



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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent - · - · - Ephemeral - - - - - Approx. Stream Bank/Edge - - - - - Approx. Stream Centerline ▭ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water ▭ Delineated Wetland Boundary ▭ PEM Wetland ▭ PFO Wetland ▭ PSS Wetland ▨ Approx. Wetland - - - Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ▭ Surface Water ▭ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



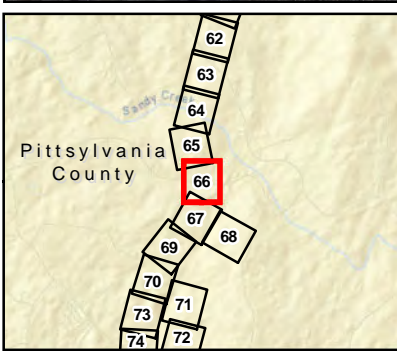


Figure 4
Wetland & Waterway Delineation Maps
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 West Chester, PA 19382
 March 2019

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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type	▨ PEM Wetland	Modified Based On USACE Or State Review
— Perennial	▨ PFO Wetland	— Stream
— Intermittent	▨ PSS Wetland	— Wetland Boundary
— Ephemeral	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Bank/Edge	— Contours	▨ Wetland
— Approx. Stream Centerline	● PEM Data Plot	
▨ Surface Water	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



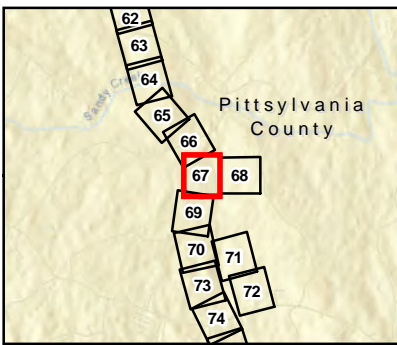


Figure 4
Wetland & Waterway Delineation Maps
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600 Willowbrook Ln
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March 2019

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Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
- · - · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	
— Surface Water	
▨ Approx. Surface Water	▨ PEM Wetland
▬ Delineated Wetland Boundary	▨ PFO Wetland
▨ PEM Wetland	▨ PSS Wetland
▨ PFO Wetland	▨ Approx. Wetland
▨ PSS Wetland	▨ Contours
▨ Approx. Wetland	● PEM Data Plot
▨ Contours	● PFO Data Plot

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



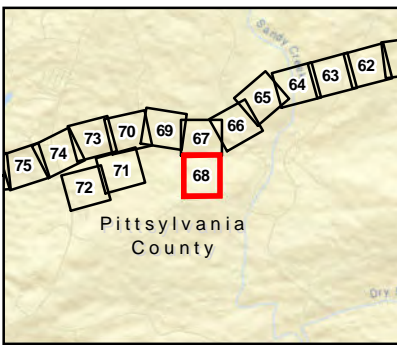


Figure 4
Wetland & Waterway Delineation Maps
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Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	
— Perennial	— Modified Based On USACE Or State Review
- - - Intermittent	— Stream
- · - · - Ephemeral	— Wetland Boundary
— Approx. Stream Bank/Edge	— Surface Water
— Approx. Stream Centerline	— Wetland
— Surface Water	
▨ Approx. Surface Water	● PEM Data Plot
— Delineated Wetland Boundary	● PFO Data Plot
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	
— Contours	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



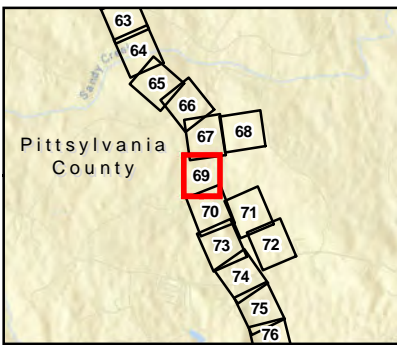


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 68 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- · - Intermittent	— Wetland Boundary
- · - · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	
— Surface Water	
▨ Approx. Surface Water	● PEM Data Plot
— Delineated Wetland Boundary	● PFO Data Plot
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	
— Contours	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



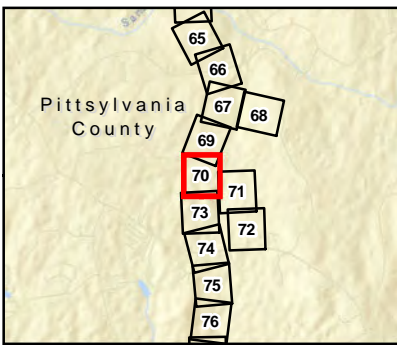


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 69 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area <p>Stream Type</p> <ul style="list-style-type: none"> — Perennial - - - Intermittent - · - · - Ephemeral - - - - - Approx. Stream Bank/Edge - - - - - Approx. Stream Centerline ■ Surface Water <p>Data Sources: ESRI, EQT, TRC</p>	<ul style="list-style-type: none"> ▨ Approx. Surface Water ▬ Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot <p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> — Stream — Wetland Boundary ■ Surface Water ■ Wetland <p>1 inch = 200 feet when printed 8.5x11</p>
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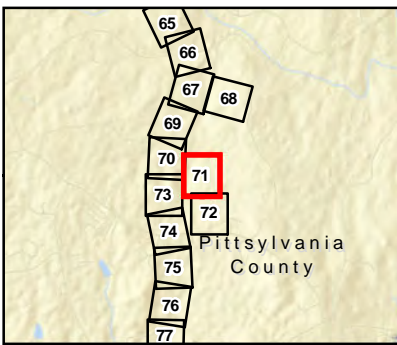


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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West Chester, PA 19382
March 2019

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Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



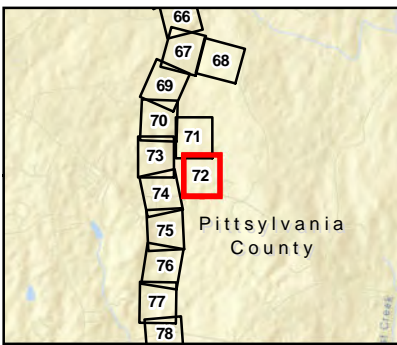
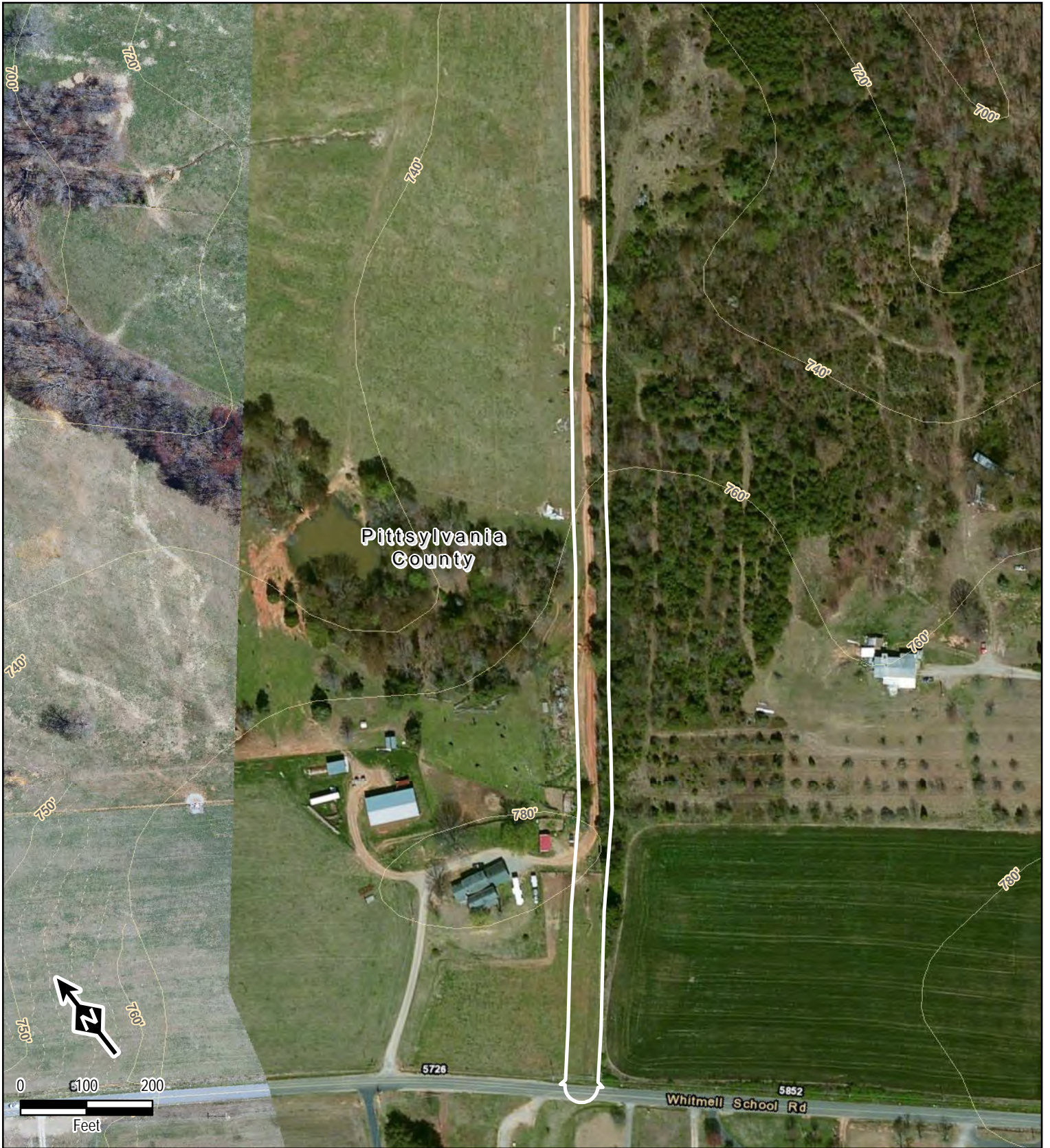


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 71 of 125



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March 2019

S:\1-PROJECTS\NEXT ERA\300423_MVP_Southgate6-MXD\State_Permittin\Delin_Report\Fig. 4_VA_and_NC_Delineated_Resources_8x11P_2019_March_Supplemental.mxd



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral - - - Approx. Stream Bank/Edge - - - Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



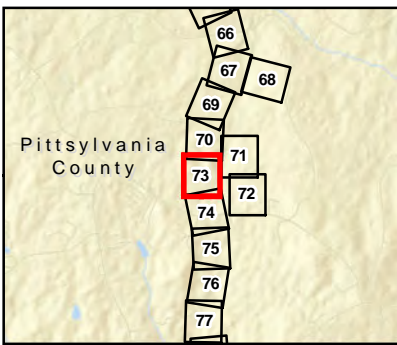


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Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area <p>Stream Type</p> <ul style="list-style-type: none"> — Perennial - - - Intermittent · · · Ephemeral - - - Approx. Stream Bank/Edge - - - Approx. Stream Centerline ■ Surface Water <p>Data Sources: ESRI, EQT, TRC</p>	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot <p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> — Stream — Wetland Boundary ■ Surface Water ■ Wetland <p>1 inch = 200 feet when printed 8.5x11</p>
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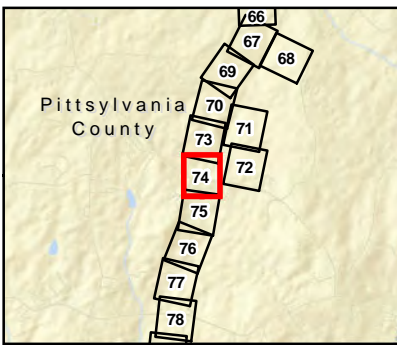


Figure 4
Wetland & Waterway Delineation Maps
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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area <p>Stream Type</p> <ul style="list-style-type: none"> — Perennial - - - Intermittent · · · Ephemeral - - - Approx. Stream Bank/Edge - - - Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot <p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



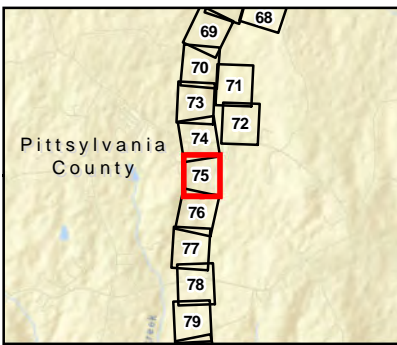


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Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
- · - · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	
— Surface Water	
▨ Approx. Surface Water	● PEM Data Plot
— Delineated Wetland Boundary	● PFO Data Plot
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	
— Contours	

Data Sources: ESRI, EQT, TRC

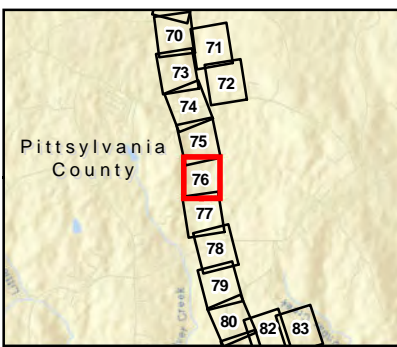
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Mountain Valley PIPELINE LLC

Figure 4
Wetland & Waterway Delineation Maps
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TRC
Resiliency you can rely on

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Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
- · - · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



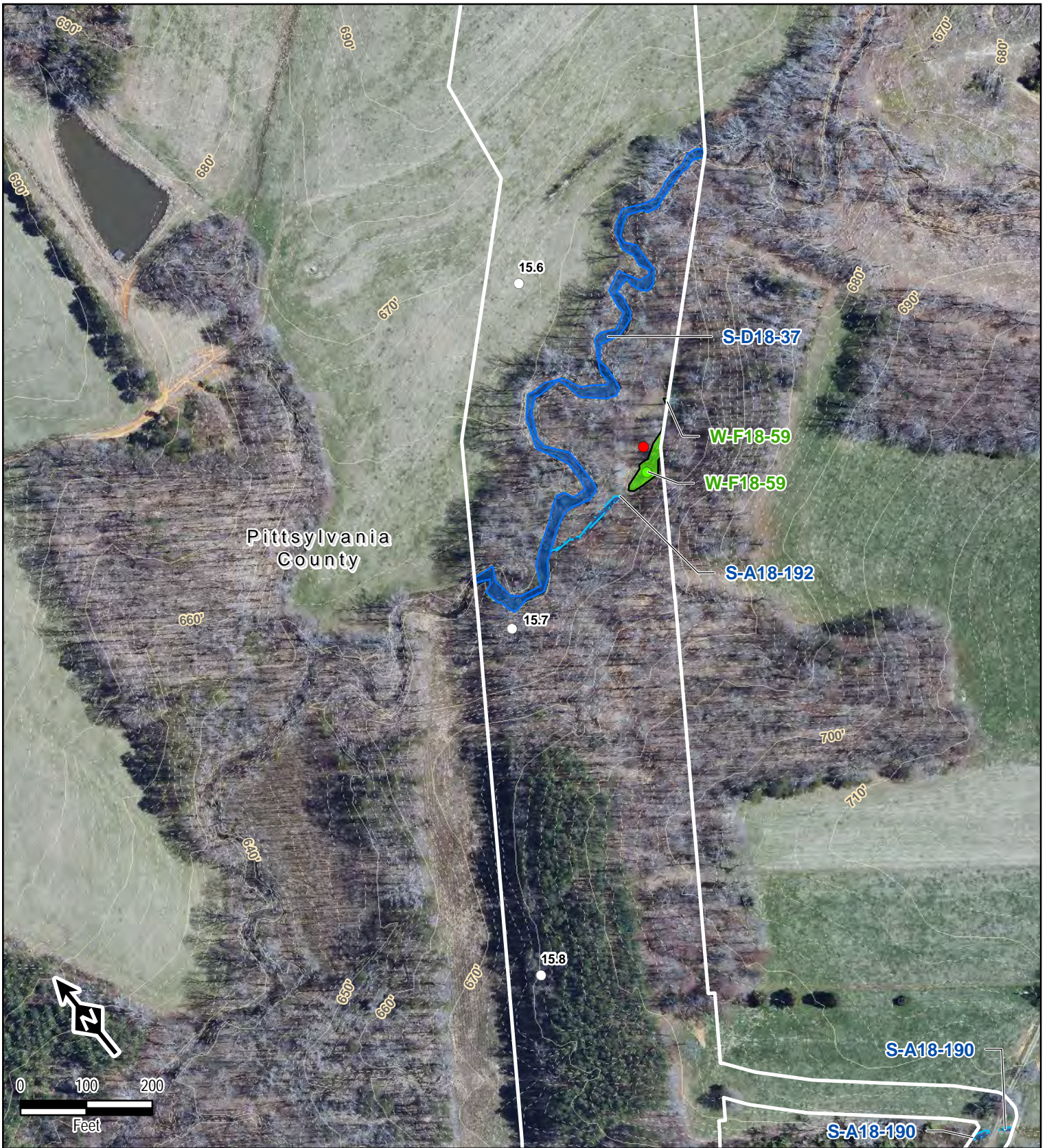


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Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



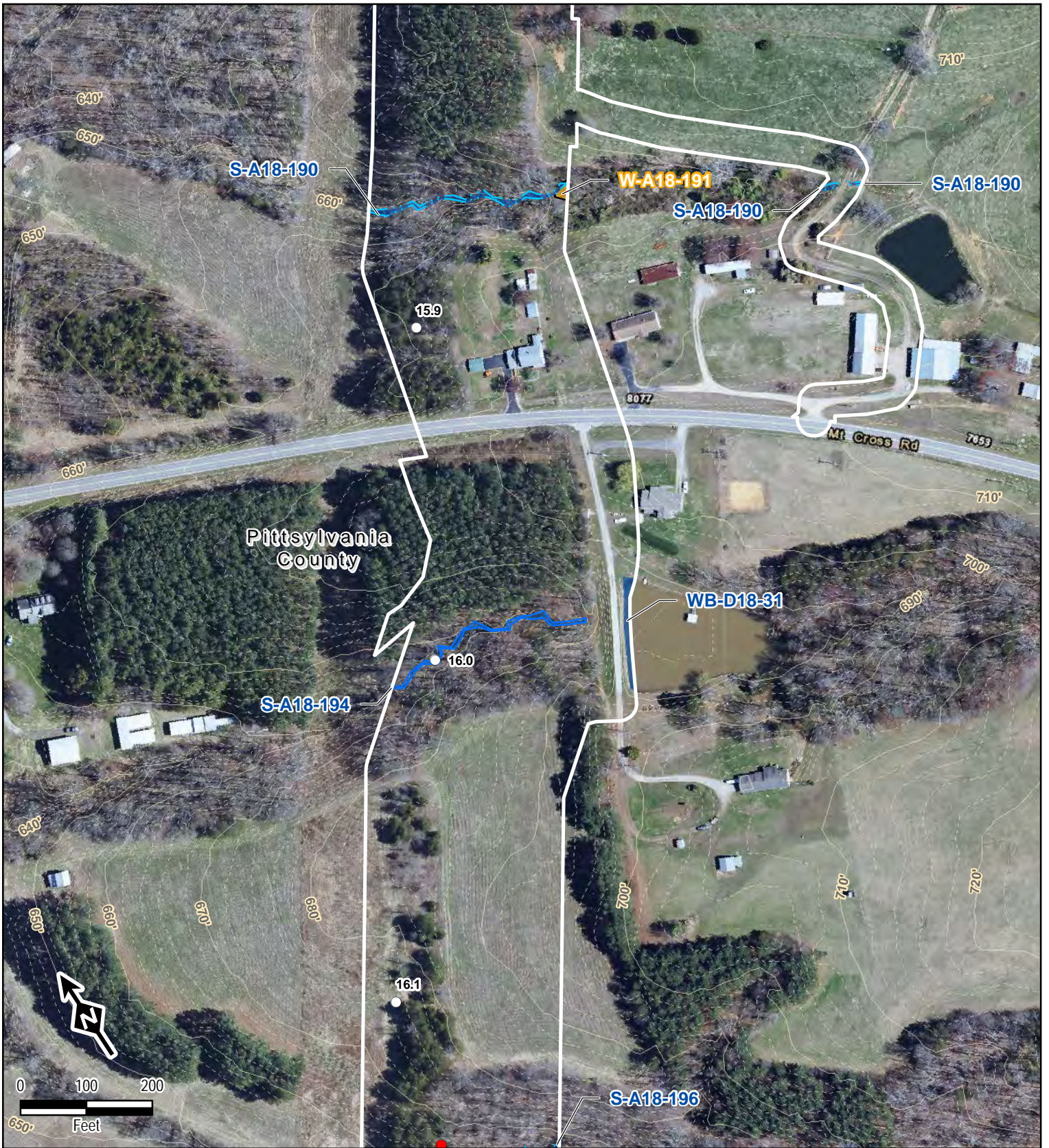


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 77 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019

S:\1-PROJECTS\NEXT\ERA\300423_MVP_Southgate\6-MXD\State_Permitting\Delin_Report\Fig. 4_VA_and_NC_Delineated_Resources_8x11P_2019_March_Supplemental.mxd



Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	▬ Delineated Wetland Boundary	● Upland Data Plot
Stream Type	▭ PEM Wetland	Modified Based On
— Perennial	▭ PFO Wetland	USACE Or State Review
- · - Intermittent	▭ PSS Wetland	— Stream
- · · - Ephemeral	▭ Approx. Wetland	— Wetland Boundary
▬ Approx. Stream Bank/Edge	▭ Contours	▭ Surface Water
▬ Approx. Stream Centerline	● PEM Data Plot	▭ Wetland
▭ Surface Water	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



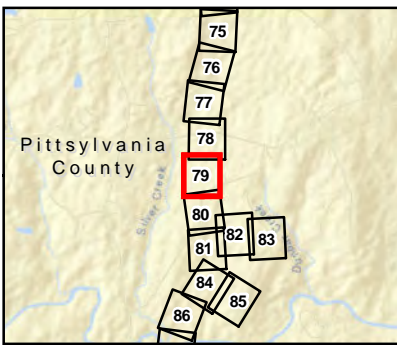


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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600 Willowbrook Ln
West Chester, PA 19382
March 2019

S:\1-PROJECTS\NEXT\ERA\300423_MVP_Southern\6-MXD\State_Permittin\Delin_Report\Fig. 4_VA_and_NC_Delineated_Resources_8x11P_2019_March_Supplemental.mxd



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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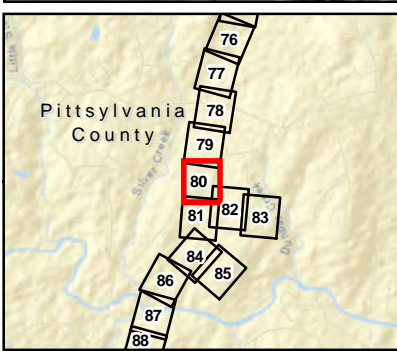
Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11

Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 79 of 125

600 Willowbrook Ln
West Chester, PA 19382
March 2019

S:\1-PROJECTS\NEXT\ERA\300423 MVP_SouthernGate6-MXD\State_Permitting\Delin_Report\Fig. 4_VA_and_NC_Delineated_Resources_8x11P_2019_March_Supplemental.mxd



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11





Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 80 of 125



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March 2019



Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	▬ Delineated Wetland Boundary	● Upland Data Plot
Stream Type	▨ PEM Wetland	Modified Based On USACE Or State Review
— Perennial	▨ PFO Wetland	— Stream
- - - Intermittent	▨ PSS Wetland	— Wetland Boundary
· · · Ephemeral	▨ Approx. Wetland	▨ Surface Water
▬ Approx. Stream Bank/Edge	▬ Contours	▨ Wetland
▬ Approx. Stream Centerline	● PEM Data Plot	
▨ Surface Water	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



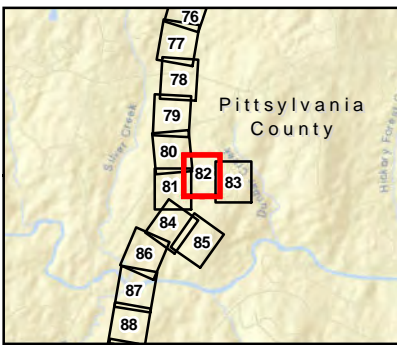


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 81 of 125



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West Chester, PA 19382
March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area <p>Stream Type</p> <ul style="list-style-type: none"> — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ▭ Surface Water <p>Data Sources: ESRI, EQT, TRC</p>	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ▭ PEM Wetland ▭ PFO Wetland ▭ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot <p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> — Stream — Wetland Boundary ▭ Surface Water ▭ Wetland <p>1 inch = 200 feet when printed 8.5x11</p>
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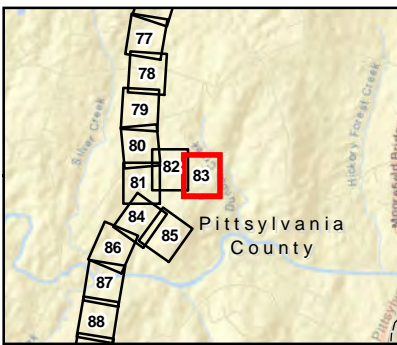
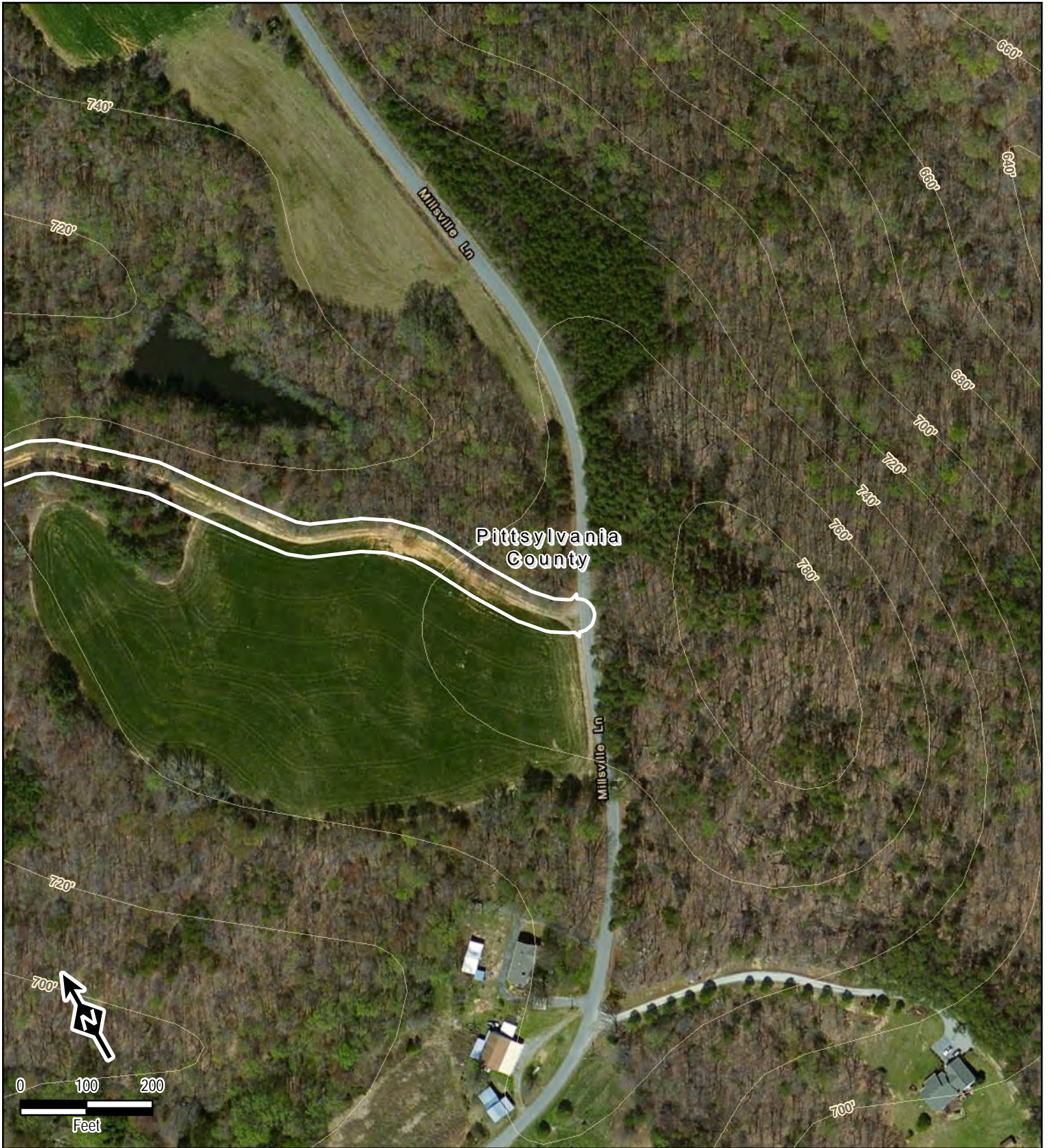


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 82 of 125



600 Willowbrook Ln
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March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- · - Intermittent	— Wetland Boundary
- · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



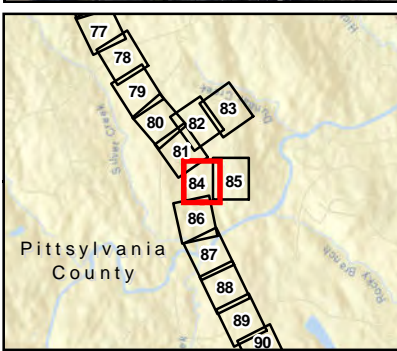


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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West Chester, PA 19382
March 2019

S:\1-PROJECTS\NEXT\ERA\300423_MVP_Southgate\6-MXD\State_Permitting\Delin_Report\Fig. 4_VA_and_NC_Delineated_Resources_8x11P_2019_March_Supplemental.mxd



Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type	▨ PEM Wetland	Modified Based On USACE Or State Review
— Perennial	▨ PFO Wetland	— Stream
— Intermittent	▨ PSS Wetland	— Wetland Boundary
— Ephemeral	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Bank/Edge	— Contours	▨ Wetland
— Approx. Stream Centerline	● PEM Data Plot	
▨ Surface Water	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



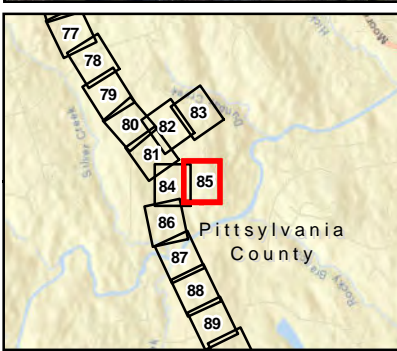


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 84 of 125



600 Willowbrook Ln
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Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- · - Intermittent	— Wetland Boundary
- · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	
— Surface Water	
▨ Approx. Surface Water	● PEM Data Plot
— Delineated Wetland Boundary	● PFO Data Plot
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	
— Contours	
● PEM Data Plot	
● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11





Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type	▨ PEM Wetland	Modified Based On USACE Or State Review
— Perennial	▨ PFO Wetland	— Stream
— Intermittent	▨ PSS Wetland	— Wetland Boundary
— Ephemeral	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Bank/Edge	— Contours	▨ Wetland
— Approx. Stream Centerline	● PEM Data Plot	
▨ Surface Water	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



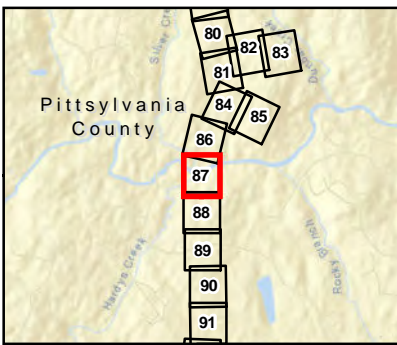


Figure 4
Wetland & Waterway Delineation Maps
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March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - · - Intermittent - · · · Ephemeral - - - - - Approx. Stream Bank/Edge - - - - - Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water ▬ Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11





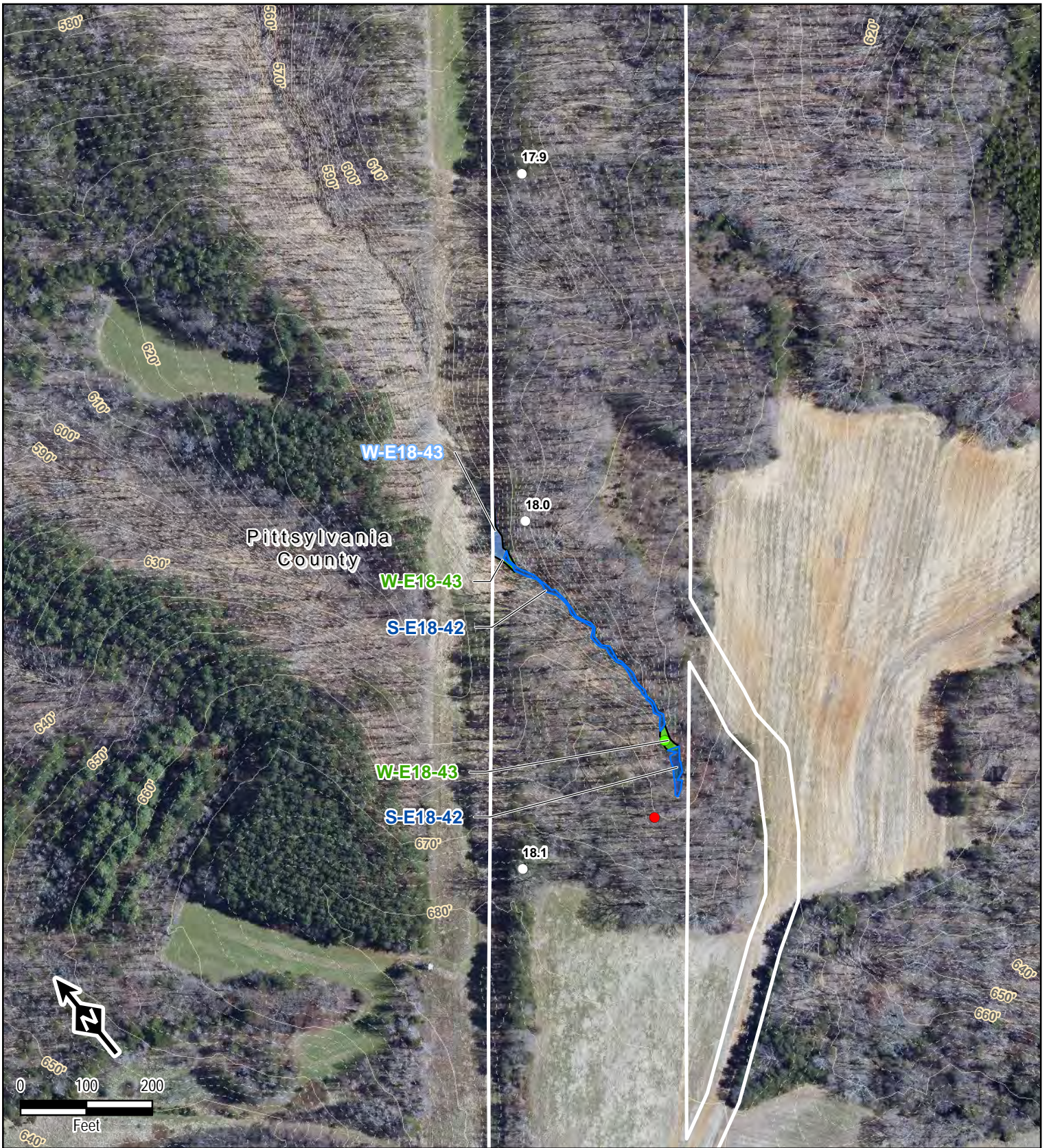
Figure 4
 Wetland & Waterway Delineation Maps
 Pittsylvania County, Virginia
 Sheet 87 of 125



TRC
Results you can rely on

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 West Chester, PA 19382
 March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



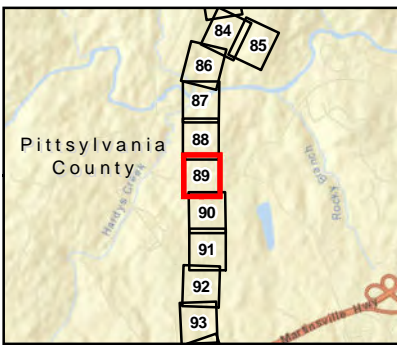


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ▭ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ▭ PEM Wetland ▭ PFO Wetland ▭ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ▭ Surface Water ▭ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



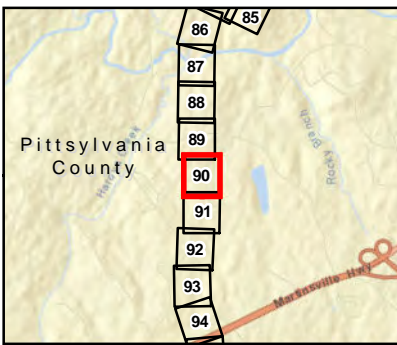


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 89 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	▭ Surface Water
— Approx. Stream Bank/Edge	▭ Wetland
— Approx. Stream Centerline	— Contours
▭ Surface Water	● PEM Data Plot
▭ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▭ PEM Wetland	
▭ PFO Wetland	
▭ PSS Wetland	
▭ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



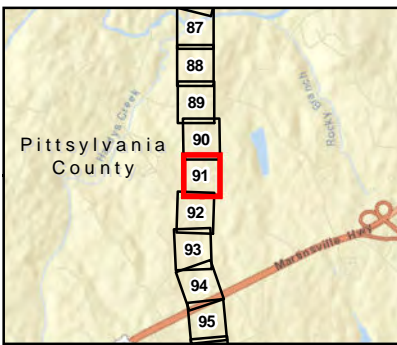


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 90 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral - - - Approx. Stream Bank/Edge - - - Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



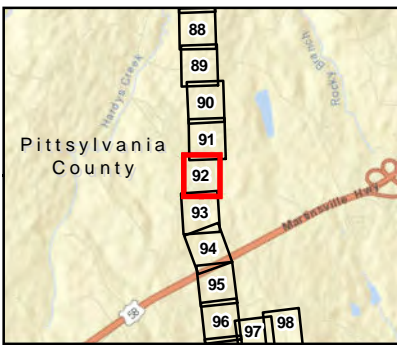


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
--	--	---

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



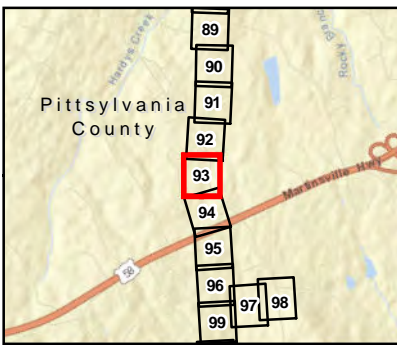
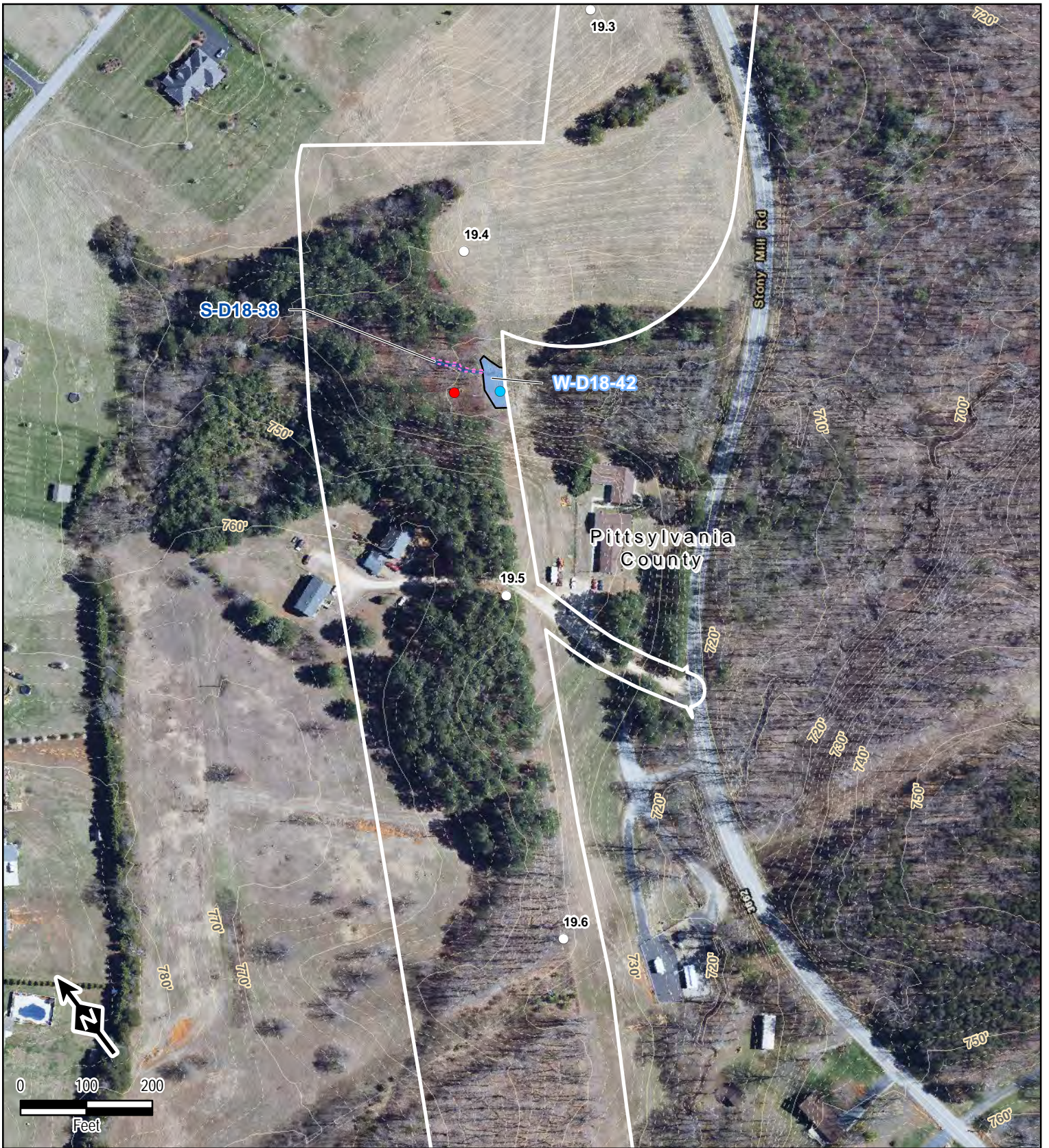


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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March 2019

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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type	▨ PEM Wetland	Modified Based On USACE Or State Review
— Perennial	▨ PFO Wetland	— Stream
- - - Intermittent	▨ PSS Wetland	— Wetland Boundary
· · · Ephemeral	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Bank/Edge	— Contours	▨ Wetland
— Approx. Stream Centerline	● PEM Data Plot	
▨ Surface Water	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



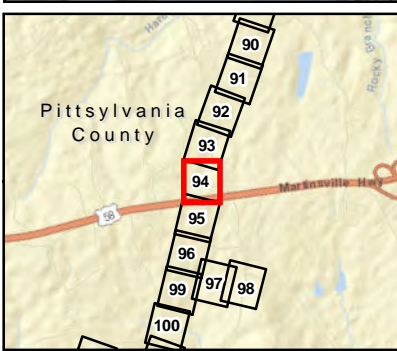


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 93 of 125



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March 2019

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Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	
— Surface Water	
▨ Approx. Surface Water	
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	
— Contours	
● PEM Data Plot	
● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



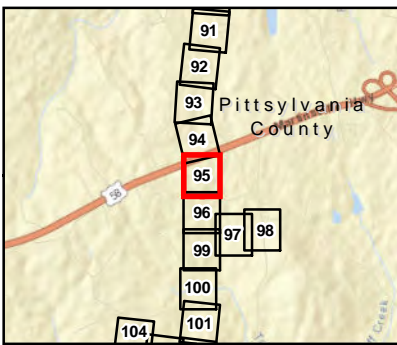


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 94 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area <p>Stream Type</p> <ul style="list-style-type: none"> — Perennial - - - Intermittent · · · Ephemeral - - - Approx. Stream Bank/Edge - - - Approx. Stream Centerline ▭ Surface Water <p>Data Sources: ESRI, EQT, TRC</p>	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ▭ PEM Wetland ▭ PFO Wetland ▭ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot <p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> — Stream — Wetland Boundary ▭ Surface Water ▭ Wetland
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1 inch = 200 feet when printed 8.5x11



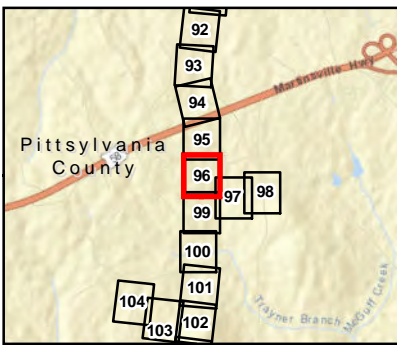


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 95 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
- · - · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	
— Surface Water	
▨ Approx. Surface Water	
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	
— Contours	
● PEM Data Plot	
● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



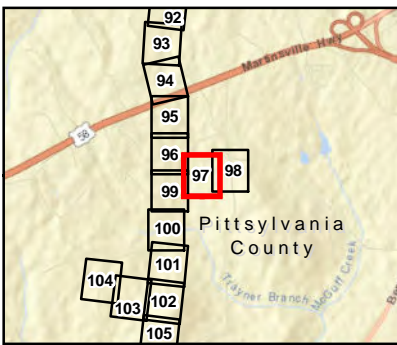


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 96 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	▭ Surface Water
— Approx. Stream Bank/Edge	▭ Wetland
— Approx. Stream Centerline	— Contours
▭ Surface Water	● PEM Data Plot
▭ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▭ PEM Wetland	
▭ PFO Wetland	
▭ PSS Wetland	
▭ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



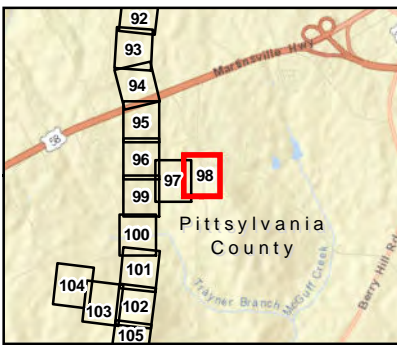


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 97 of 125



600 Willowbrook Ln
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March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- · - Intermittent	— Wetland Boundary
- · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



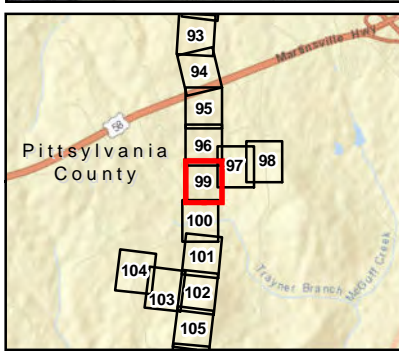
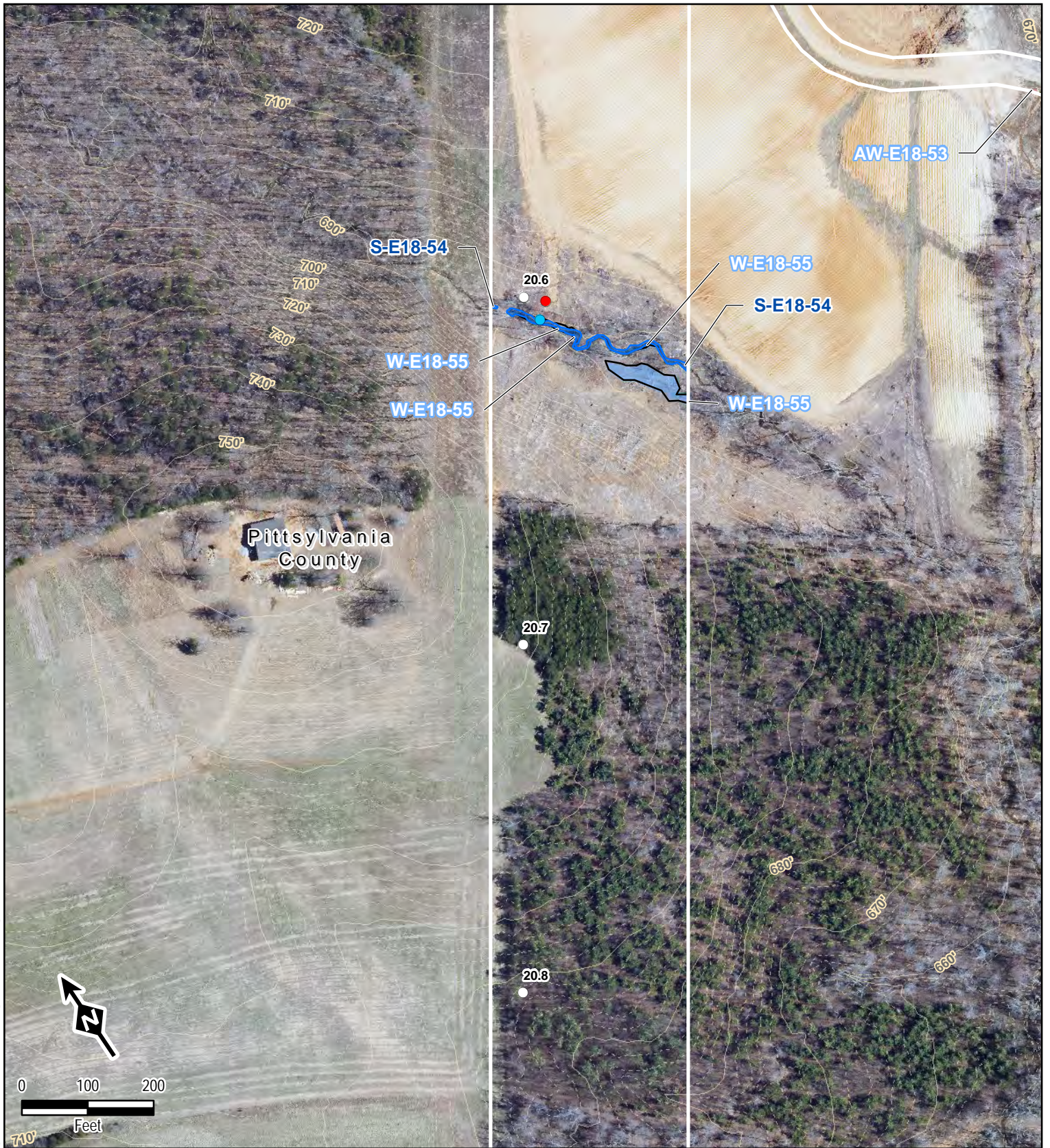


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 98 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



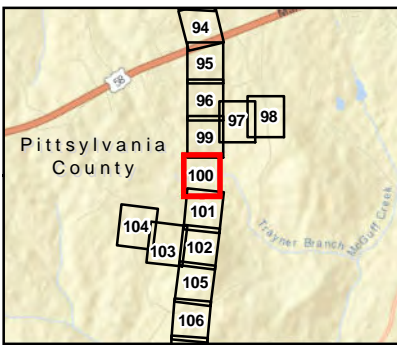
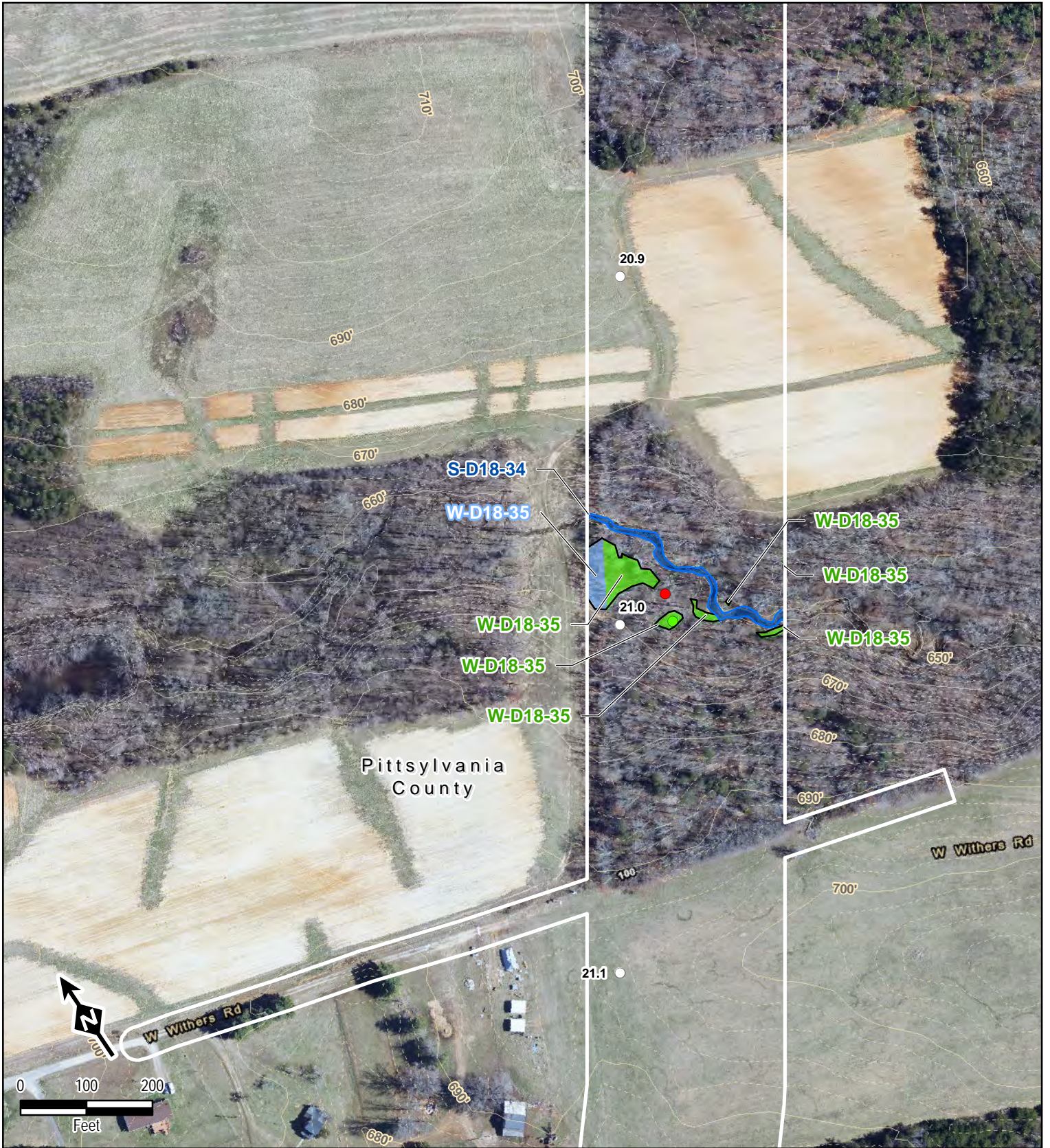


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 99 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	▭ Surface Water
— Approx. Stream Bank/Edge	▭ Wetland
— Approx. Stream Centerline	— Contours
▭ Surface Water	● PEM Data Plot
▭ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▭ PEM Wetland	
▭ PFO Wetland	
▭ PSS Wetland	
▭ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



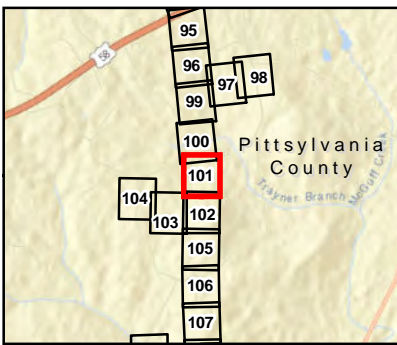


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 100 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ▭ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ▭ PEM Wetland ▭ PFO Wetland ▭ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ▭ Surface Water ▭ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



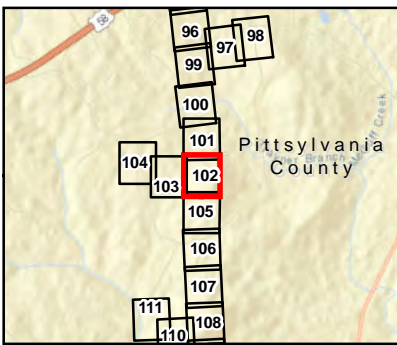


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 101 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area <p>Stream Type</p> <ul style="list-style-type: none"> — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water <p>Data Sources: ESRI, EQT, TRC</p>	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot <p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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1 inch = 200 feet when printed 8.5x11



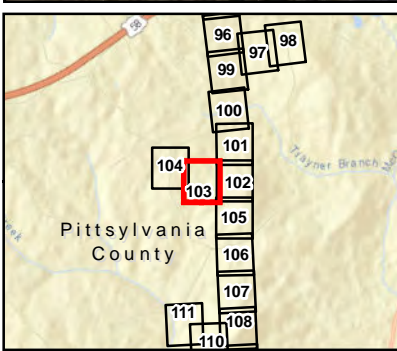


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 102 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



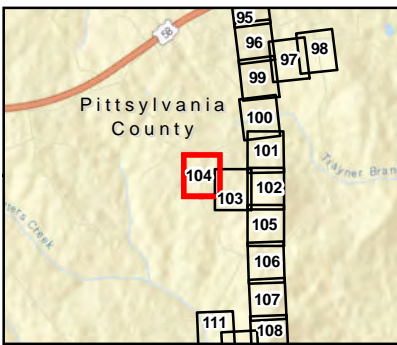


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 103 of 125



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West Chester, PA 19382
March 2019

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<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area Stream Type — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water 	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot Modified Based On USACE Or State Review — Stream — Wetland Boundary ■ Surface Water ■ Wetland
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Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



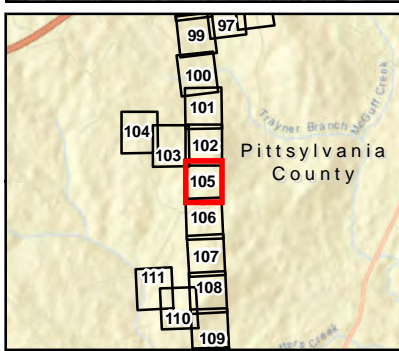


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 104 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	
— Surface Water	
▨ Approx. Surface Water	▨ PEM Wetland
— Delineated Wetland Boundary	▨ PFO Wetland
▨ PEM Wetland	▨ PSS Wetland
▨ PFO Wetland	▨ Approx. Wetland
▨ PSS Wetland	▨ Contours
▨ Approx. Wetland	● PEM Data Plot
— Contours	● PFO Data Plot

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



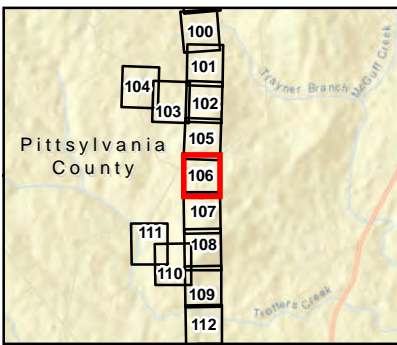
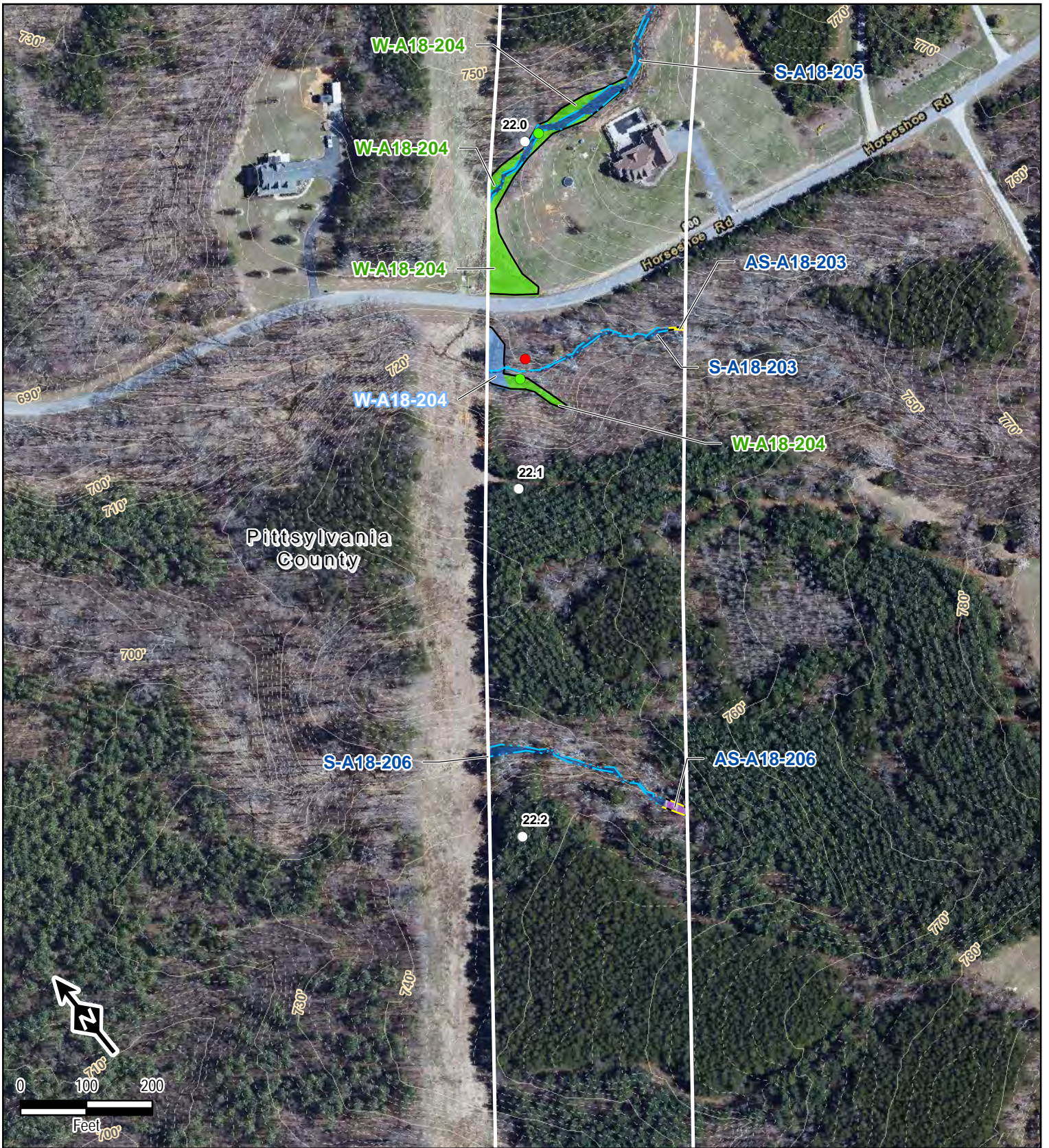


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 105 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019

S:\1-PROJECTS\NEXT\ERA\300423_MVP_Southgate6-MXD\State_Permittin\Delin_Report\Fig. 4_VA_and_NC_Delineated_Resources_8x11P_2019_March_Supplemental.mxd



Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	▬ Delineated Wetland Boundary	● Upland Data Plot
Stream Type	▭ PEM Wetland	Modified Based On USACE Or State Review
— Perennial	▭ PFO Wetland	— Stream
- - - Intermittent	▭ PSS Wetland	— Wetland Boundary
· · · Ephemeral	▨ Approx. Wetland	▭ Surface Water
▬ Approx. Stream Bank/Edge	— Contours	▭ Wetland
— Approx. Stream Centerline	● PEM Data Plot	
▭ Surface Water	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



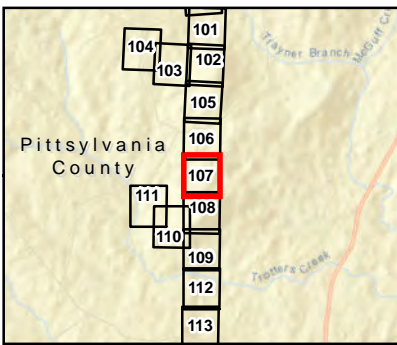


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 106 of 125



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West Chester, PA 19382
March 2019



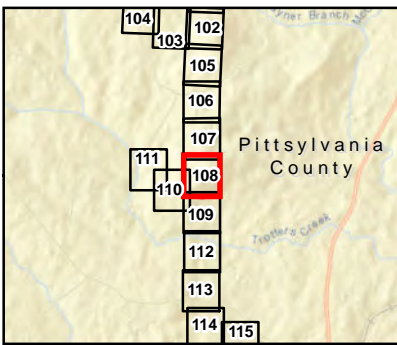
Legend			
	Mileposts		PSS Data Plot
	Survey Area		Upland Data Plot
Stream Type			
	Perennial		Approx. Surface Water
	Intermittent		Delineated Wetland Boundary
	Ephemeral		PEM Wetland
	Approx. Stream Bank/Edge		PFO Wetland
	Approx. Stream Centerline		PSS Wetland
	Surface Water		Approx. Wetland
	Contours		Wetland
	PEM Data Plot		Stream
	PFO Data Plot		Wetland Boundary
Modified Based On USACE Or State Review			
	Stream		Surface Water
	Wetland		

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11

Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 107 of 125

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West Chester, PA 19382
March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area <p>Stream Type</p> <ul style="list-style-type: none"> — Perennial - · - Intermittent - · · · Ephemeral - - - Approx. Stream Bank/Edge - - - - - Approx. Stream Centerline ■ Surface Water <p>Data Sources: ESRI, EQT, TRC</p>	<ul style="list-style-type: none"> ▨ Approx. Surface Water ▬ Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot <p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> — Stream — Wetland Boundary ■ Surface Water ■ Wetland
--	--	--

1 inch = 200 feet when printed 8.5x11



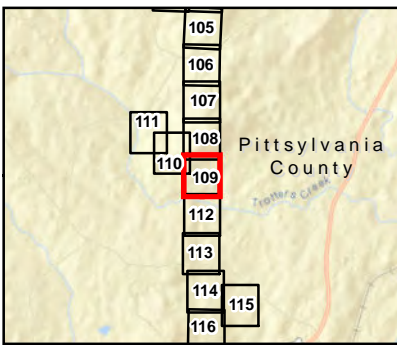


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 108 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



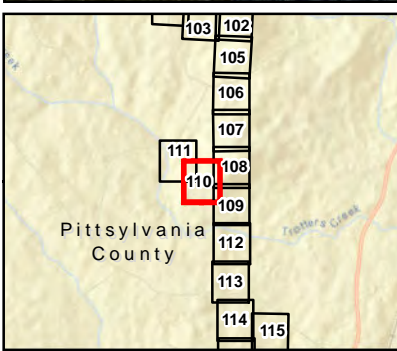


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 109 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
- · - · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



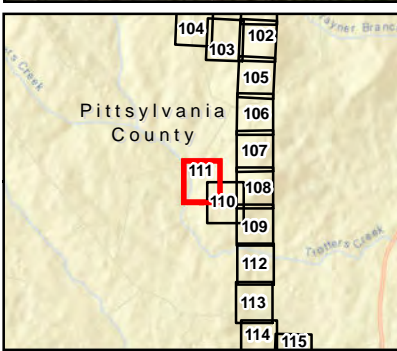


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 110 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019

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Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- · - Intermittent	— Wetland Boundary
- · · · Ephemeral	▭ Surface Water
— Approx. Stream Bank/Edge	▭ Wetland
— Approx. Stream Centerline	▭ Contours
▭ Surface Water	● PEM Data Plot
▭ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▭ PEM Wetland	
▭ PFO Wetland	
▭ PSS Wetland	
▭ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



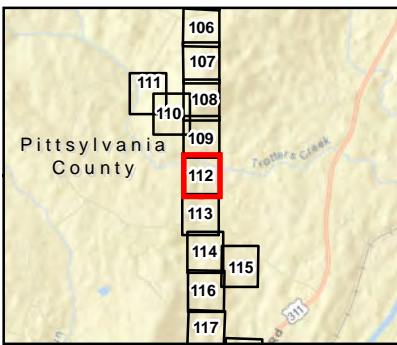
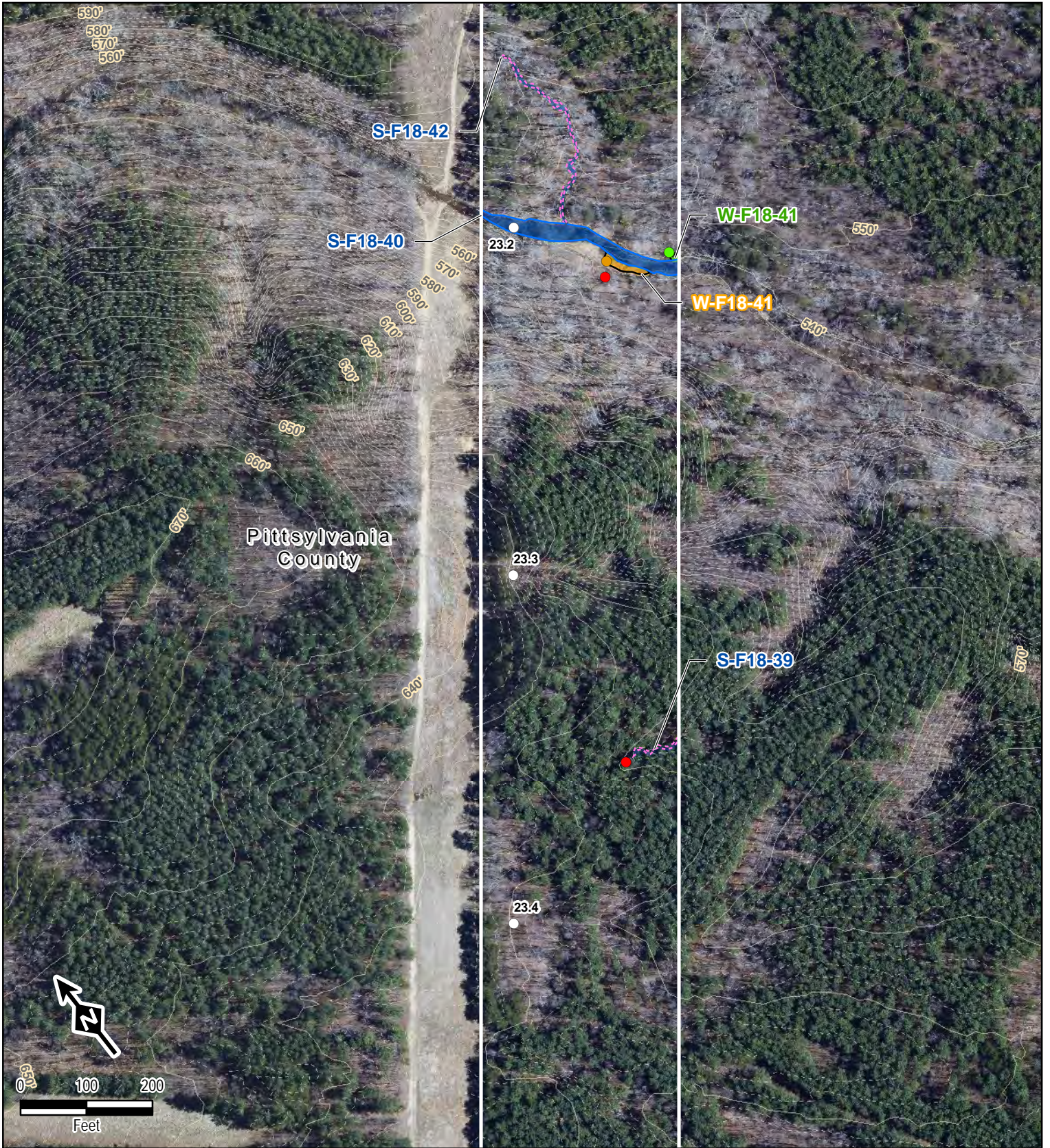


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 111 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



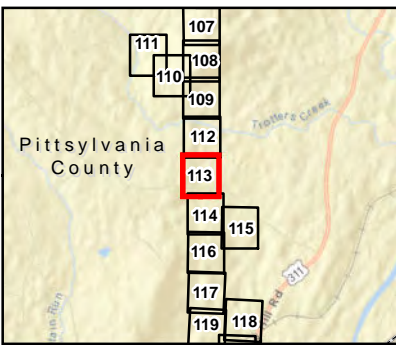
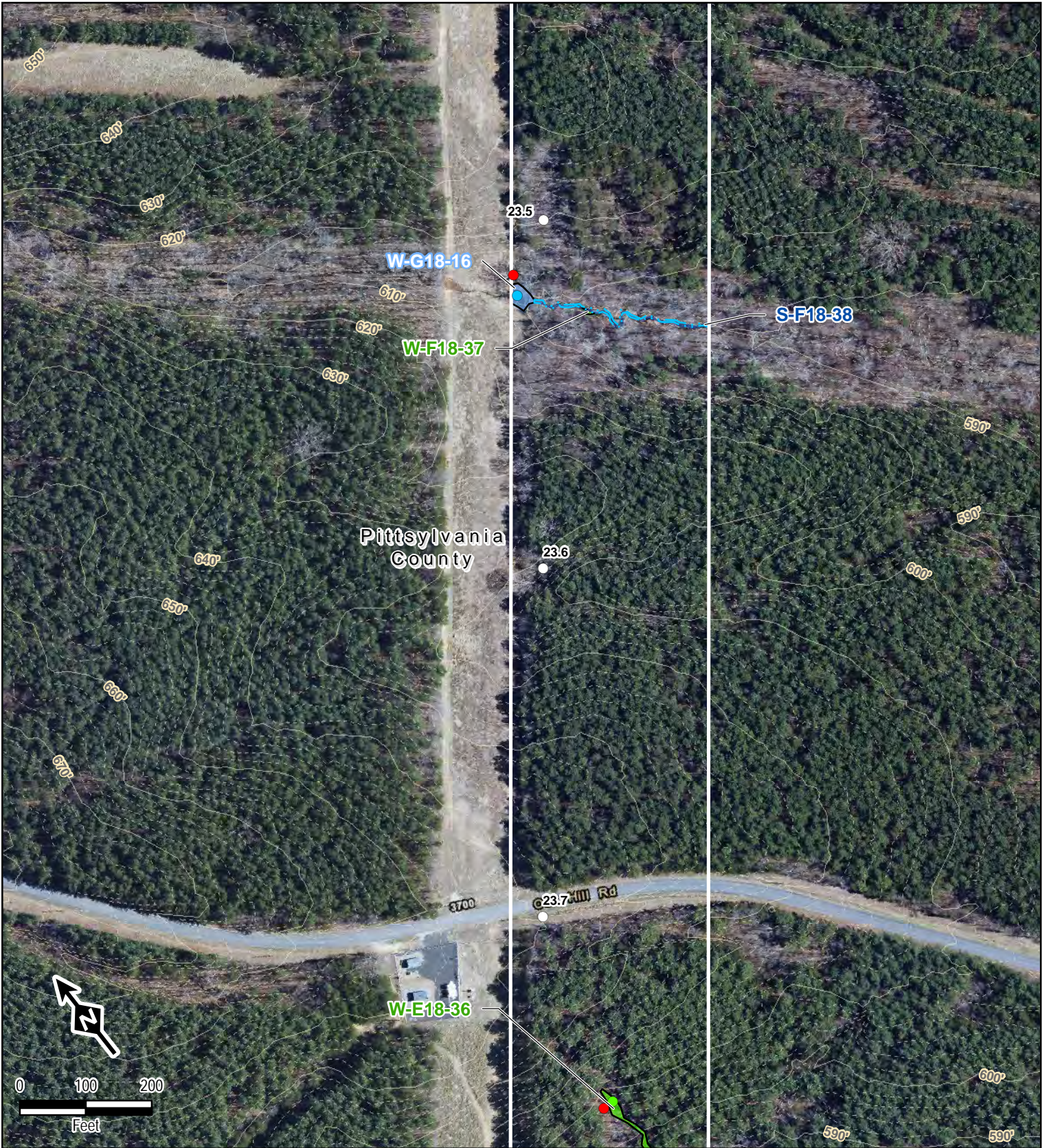
Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
- · - · - Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11

Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 112 of 125

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West Chester, PA 19382
March 2019



Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	— Stream
- · - Intermittent	▨ PFO Wetland	— Wetland Boundary
- · - Ephemeral	▨ PSS Wetland	▨ Surface Water
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Wetland
— Approx. Stream Centerline	— Contours	
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



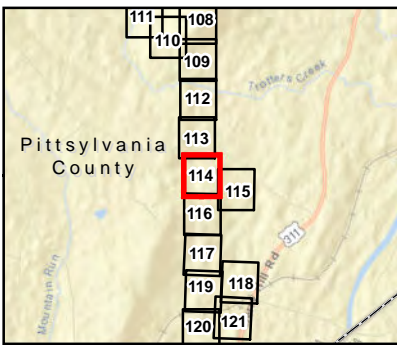
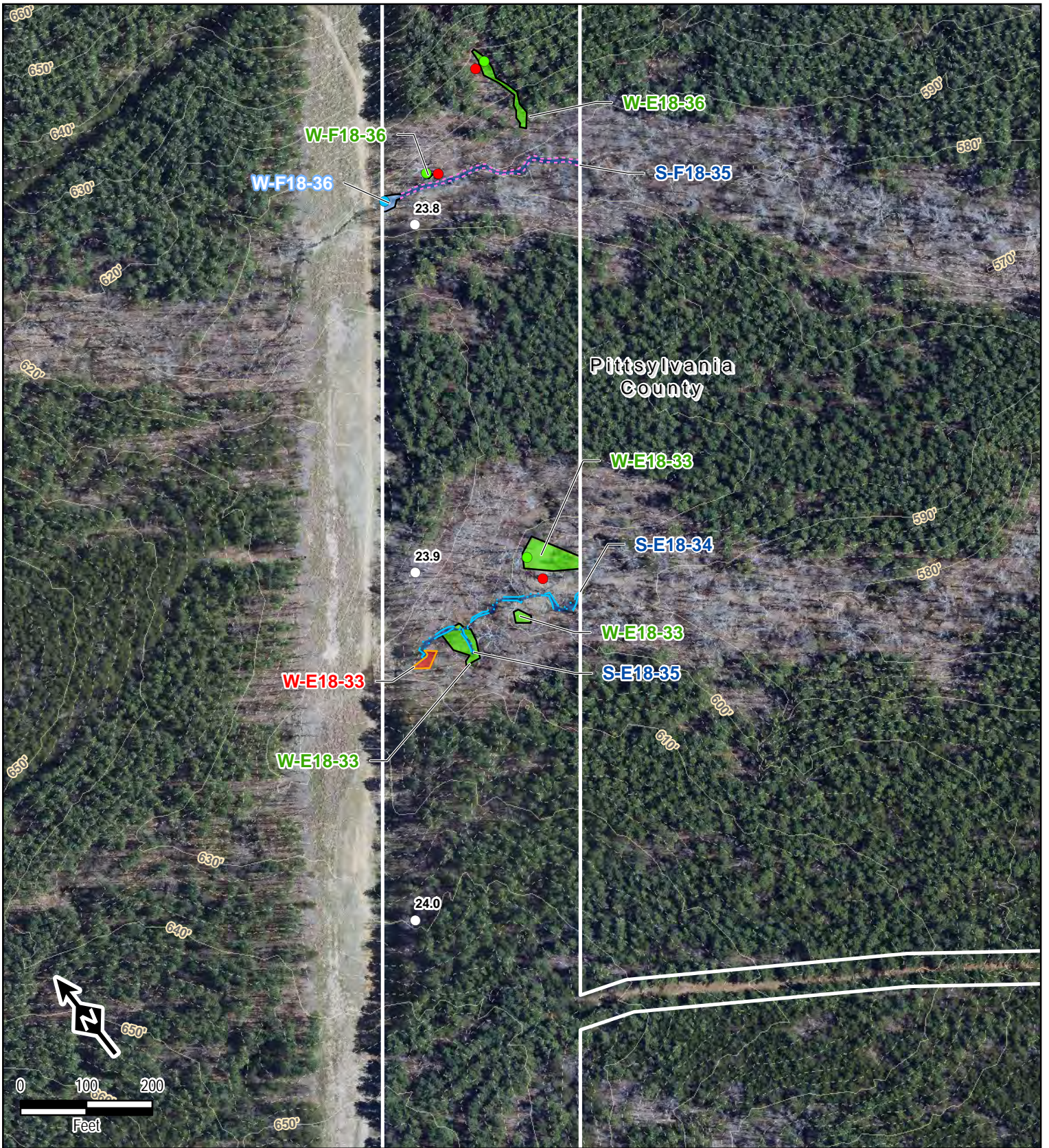


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 113 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	● PEM Data Plot
— Surface Water	● PFO Data Plot
▨ Approx. Surface Water	
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	
— Contours	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



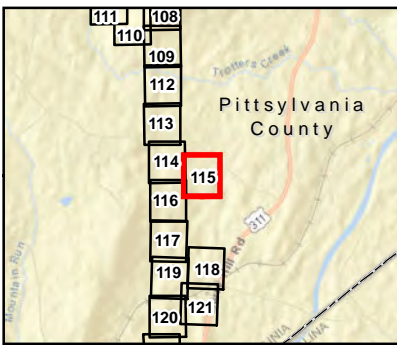


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 114 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019

S:\1-PROJECTS\NEXT\ERA\300423_MVP_Southgate6-MXD\State_Permittin\Delin_Report\Fig. 4_VA_and_NC_Delineated_Resources_8x11P_2019_March_Supplemental.mxd



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- · - Intermittent	— Wetland Boundary
- · - · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



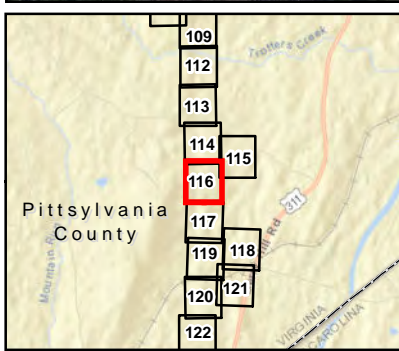


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 115 of 125



600 Willowbrook Ln
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March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- - - Intermittent	— Wetland Boundary
· · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

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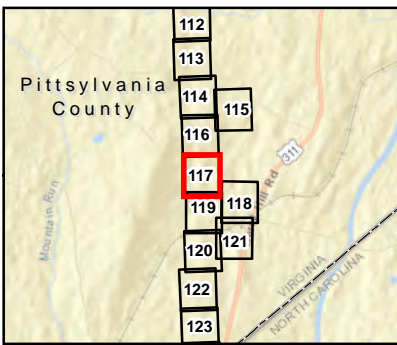


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 116 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
— Intermittent	▨ PFO Wetland	— Stream
— Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



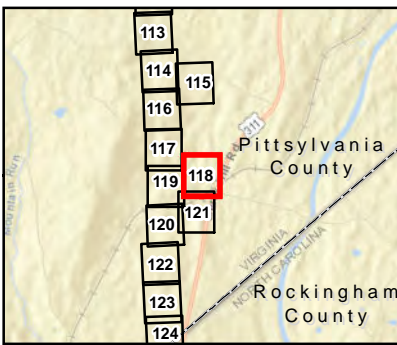


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 117 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- · - Intermittent	— Wetland Boundary
- · · Ephemeral	▭ Surface Water
— Approx. Stream Bank/Edge	▭ Wetland
— Approx. Stream Centerline	— Contours
▭ Surface Water	● PEM Data Plot
▭ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▭ PEM Wetland	
▭ PFO Wetland	
▭ PSS Wetland	
▭ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



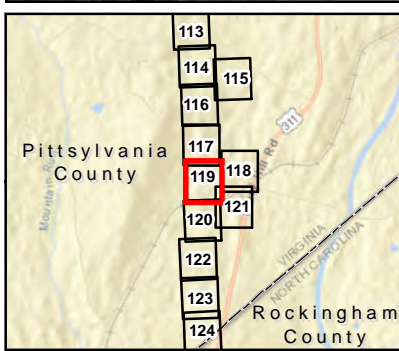


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 118 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019



Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	— Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
· · · Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	
Data Sources: ESRI, EQT, TRC		

1 inch = 200 feet when printed 8.5x11



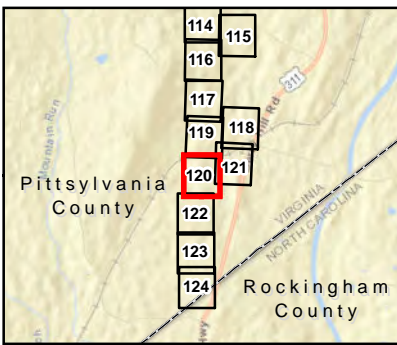


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
Sheet 119 of 125



600 Willowbrook Ln
West Chester, PA 19382
March 2019

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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
- · - · - Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



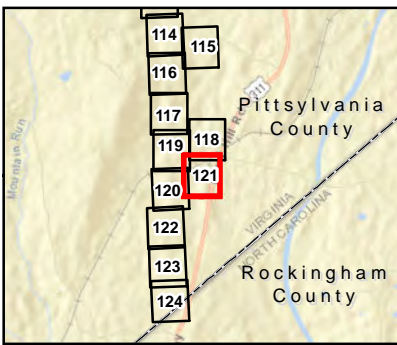
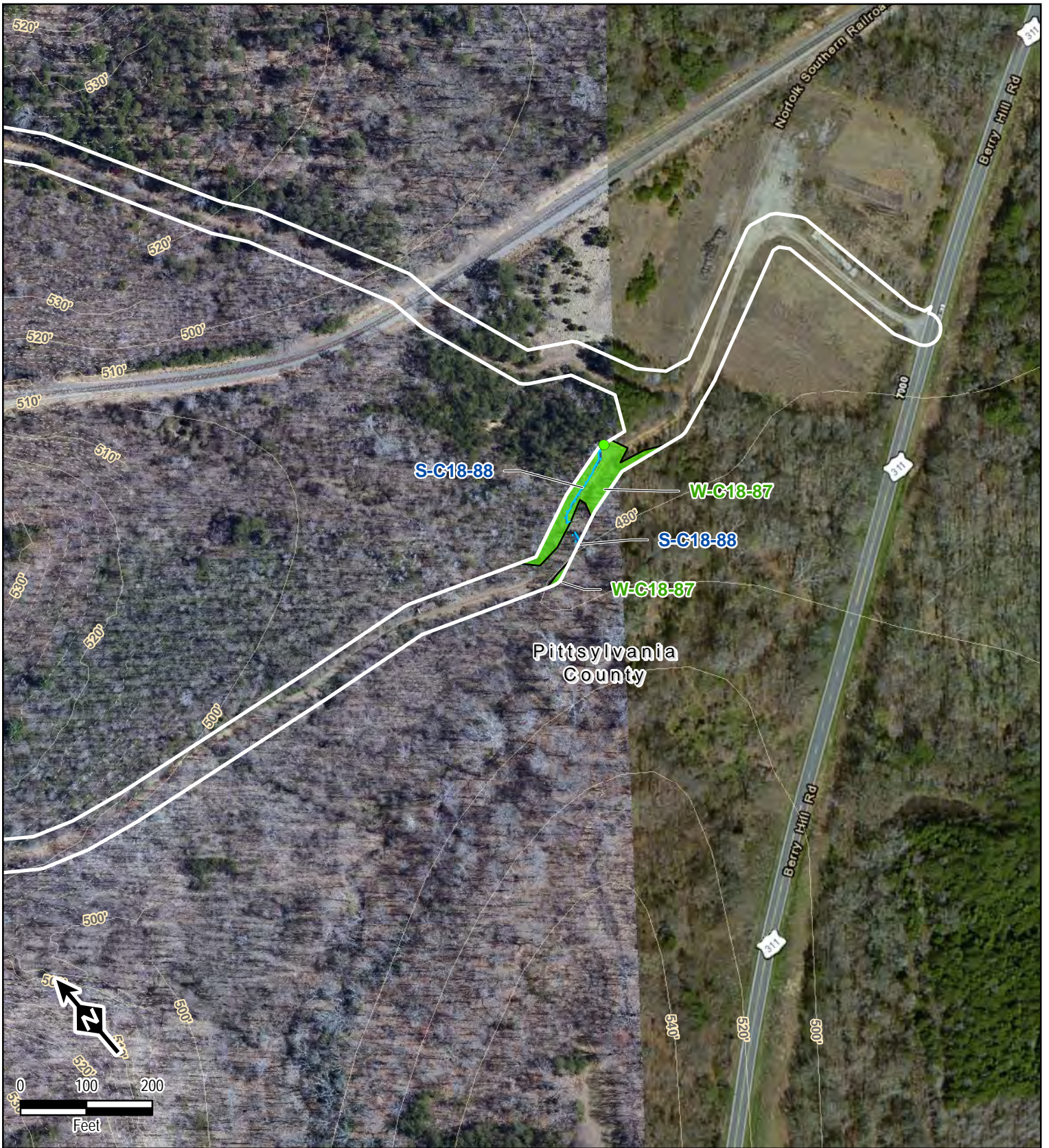


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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West Chester, PA 19382
March 2019



<ul style="list-style-type: none"> ○ Mileposts ▭ Survey Area <p>Stream Type</p> <ul style="list-style-type: none"> — Perennial - - - Intermittent · · · Ephemeral — Approx. Stream Bank/Edge — Approx. Stream Centerline ■ Surface Water <p>Data Sources: ESRI, EQT, TRC</p>	<ul style="list-style-type: none"> ▨ Approx. Surface Water — Delineated Wetland Boundary ■ PEM Wetland ■ PFO Wetland ■ PSS Wetland ▨ Approx. Wetland — Contours ● PEM Data Plot ● PFO Data Plot 	<ul style="list-style-type: none"> ● PSS Data Plot ● Upland Data Plot <p>Modified Based On USACE Or State Review</p> <ul style="list-style-type: none"> — Stream — Wetland Boundary ■ Surface Water ■ Wetland
--	--	--

1 inch = 200 feet when printed 8.5x11



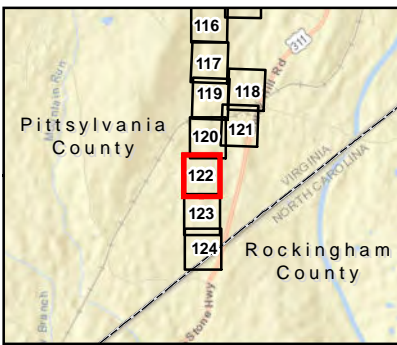


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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March 2019



Legend		
○ Mileposts	▨ (diagonal lines) Approx. Surface Water	● (yellow) PSS Data Plot
▭ (grey) Survey Area	— (dashed) Delineated Wetland Boundary	● (red) Upland Data Plot
Stream Type		
— (solid blue) Perennial	▨ (light blue) PEM Wetland	Modified Based On USACE Or State Review
— (dotted blue) Intermittent	▨ (light green) PFO Wetland	— (red) Stream
— (dashed blue) Ephemeral	▨ (orange) PSS Wetland	— (yellow) Wetland Boundary
— (dashed blue) Approx. Stream Bank/Edge	▨ (pink) Approx. Wetland	▨ (pink) Surface Water
— (dashed blue) Approx. Stream Centerline	— (dashed) Contours	▨ (red) Wetland
▨ (blue) Surface Water	● (blue) PEM Data Plot	
	● (green) PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



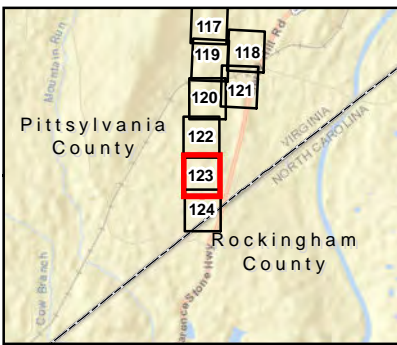
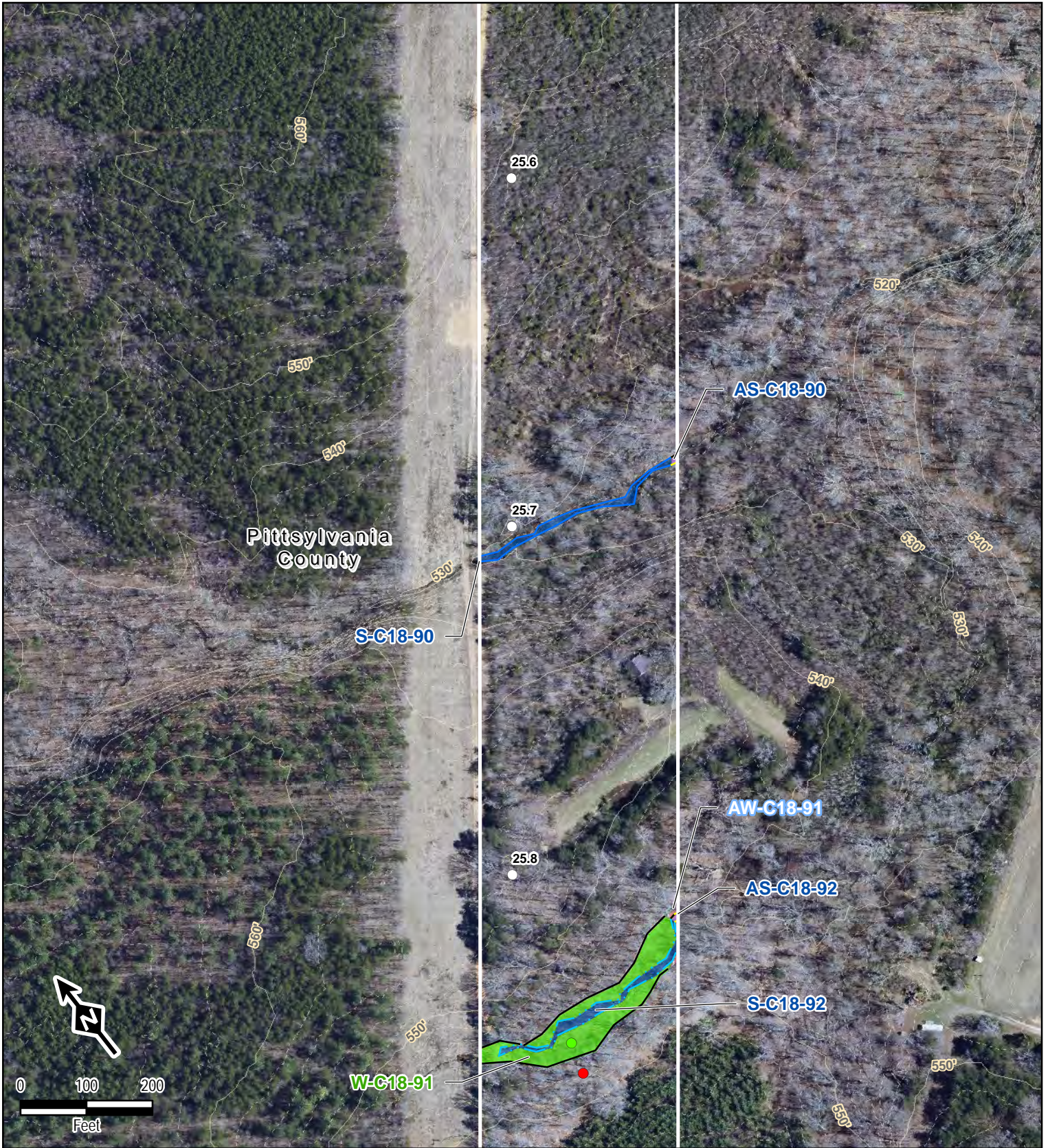


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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March 2019



Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- · - Intermittent	— Wetland Boundary
- · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	— Contours
— Surface Water	● PEM Data Plot
▨ Approx. Surface Water	● PFO Data Plot
— Delineated Wetland Boundary	
▨ PEM Wetland	
▨ PFO Wetland	
▨ PSS Wetland	
▨ Approx. Wetland	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



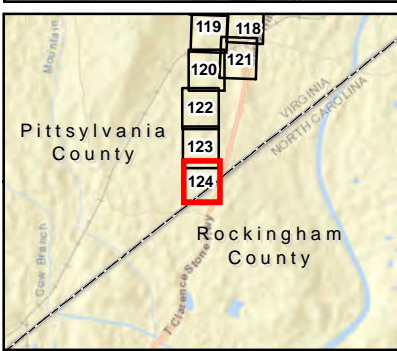
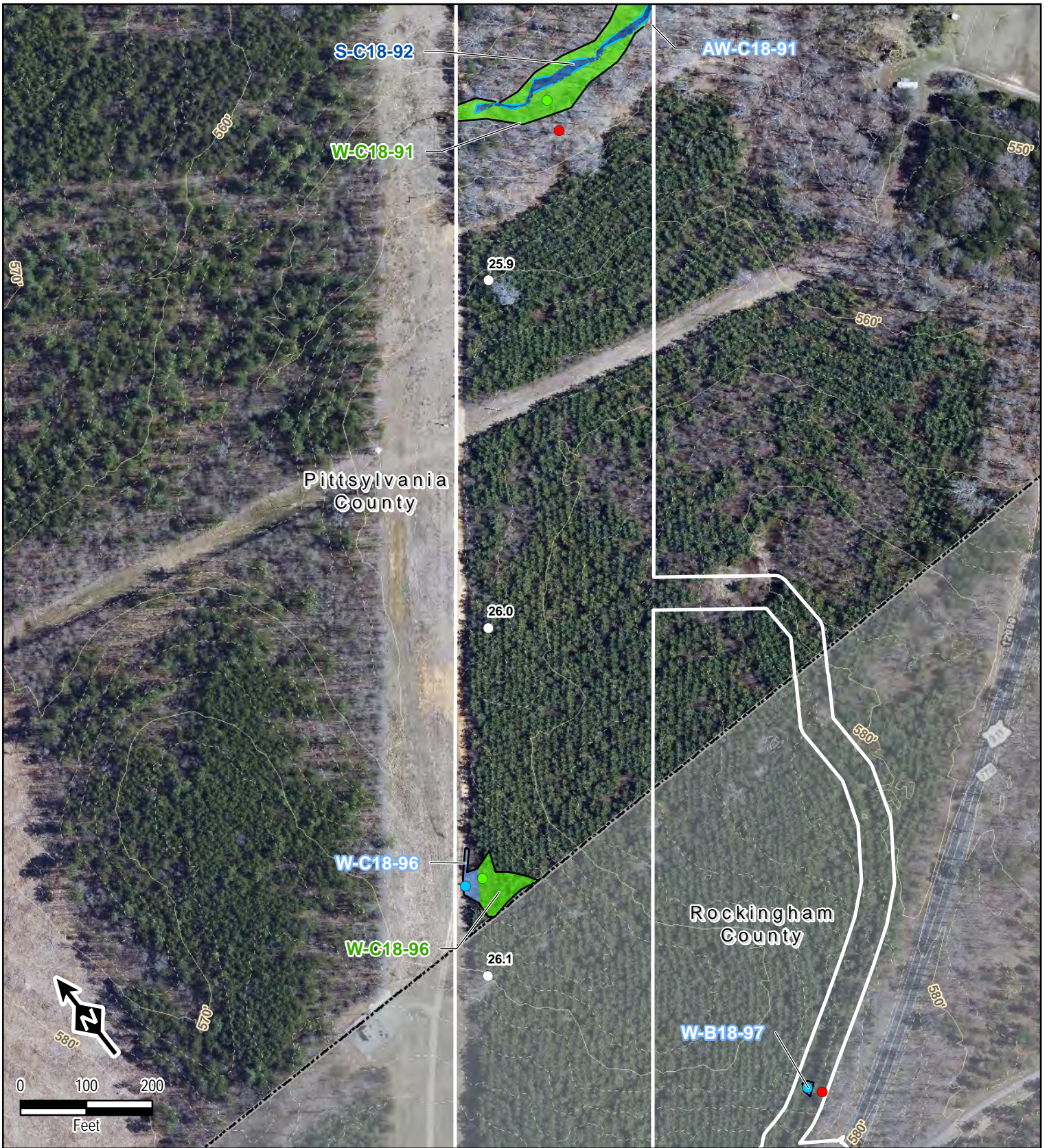


Figure 4
Wetland & Waterway Delineation Maps
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Legend		
○ Mileposts	▨ Approx. Surface Water	● PSS Data Plot
▭ Survey Area	— Delineated Wetland Boundary	● Upland Data Plot
Stream Type		
— Perennial	▨ PEM Wetland	Modified Based On USACE Or State Review
- - - Intermittent	▨ PFO Wetland	— Stream
- · - · - Ephemeral	▨ PSS Wetland	— Wetland Boundary
— Approx. Stream Bank/Edge	▨ Approx. Wetland	▨ Surface Water
— Approx. Stream Centerline	— Contours	▨ Wetland
▨ Surface Water	● PEM Data Plot	
	● PFO Data Plot	

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11



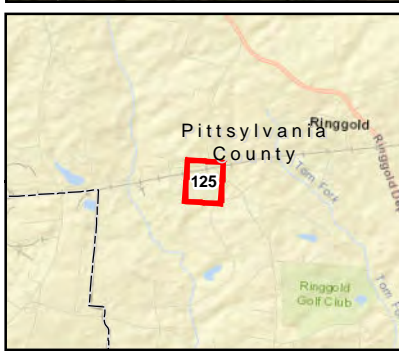


Figure 4
Wetland & Waterway Delineation Maps
Pittsylvania County, Virginia
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March 2019

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Legend	
○ Mileposts	○ PSS Data Plot
▭ Survey Area	● Upland Data Plot
Stream Type	Modified Based On USACE Or State Review
— Perennial	— Stream
- · - Intermittent	— Wetland Boundary
- · · Ephemeral	— Surface Water
— Approx. Stream Bank/Edge	— Wetland
— Approx. Stream Centerline	
— Surface Water	
▨ Approx. Surface Water	▨ PEM Wetland
— Delineated Wetland Boundary	▨ PFO Wetland
▨ PEM Wetland	▨ PSS Wetland
▨ PFO Wetland	▨ Approx. Wetland
▨ PSS Wetland	— Contours
▨ Approx. Wetland	● PEM Data Plot
— Contours	● PFO Data Plot

Data Sources: ESRI, EQT, TRC

1 inch = 200 feet when printed 8.5x11

Mountain Valley PIPELINE LLC

Figure 4
Wetland & Waterway Delineation Maps
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TRC
Results you can rely on

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March 2019