

April 15, 2025

Mr. John Fellows  
Project Manager  
U.S. Army Corps of Engineers, Jacksonville District  
701 San Marco Boulevard  
Jacksonville Florida 32207

**Re: SAJ-2019-00480**

Dear Mr. Fellows:

SWCA Environmental Consultants has received your letter dated March 17, 2025, in reference to our permit application submitted on January 2, 2025. The permit application number assigned is SAJ-2019-00480. The questions listed in your Request for Additional Information (RAI) are shown below in bold and are followed by our responses in italicized text.

**1. Figures and Exhibits:**

**Please provide the following three items for the public notice drawings:**

**a. a Vicinity/Location map. The Vicinity/Location Map should provide sufficient detail to allow one to find the subject parcel. Please include the names of major streets and roadways, the Section/Township/Range of the project, the Latitude and Longitude of the project, and street address of the project (if available).**

*Figure 1 – Location Map, as submitted in the permit application (page 46 of 391) to the U.S. Army Corps of Engineers (USACE) on January 2, 2025, is attached below.*

**b. a figure that clearly shows the proposed site plan and adjacent site features, including specific locations and dimensions of existing and proposed structures or activities. Show the total plan of development including existing and future phases.**

*Figure 10 – Mine Plan Map, as submitted in the permit application (page 54 of 391) to the USACE on January 2, 2025, is attached below.*

**c. a drawing that shows the cross-sectional (elevation) view of the project and impact areas to indicate the relationship to the affected waters.**

*Figures 11A – 11R – Wetland Impact Cross-Sections, as submitted in the permit application (page 80 - 97 of 391) to the USACE on January 2, 2025, are attached below.*

*For your convenience, Figure 11 – Wetland Impact Map, which illustrates the attached Wetland Impact Cross-Section locations, as submitted in the permit application (page 55 of 391) to the USACE on January 2, 2025, is also attached below.*

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The Corps may ask you to provide additional drawings, figures, etc. for the review, however we currently limit public notice attachments to these three items. The figures and exhibits should be scaled and show a north arrow on the plan view. Where necessary, please provide a legend on the figure, rather than a separate page.

## **2. Project Description:**

**Please provide the following:**

**a. the total acreage of impacts to all aquatic resources for the overall project,**

*The overall project will impact 740.45 acres of aquatic resources (692.14 acres of which are considered jurisdictional), as defined in the Environmental Support Document (ESD) and Tables 2 and 3, as submitted in the permit application (page 61 and 62 of 391) to the USACE on January 2, 2025.*

*Table 2 – Wetlands and Surface Waters and Table 3– Jurisdictional Wetlands Impact Summary are attached below.*

**plus:**

**i. a breakdown of that total acreage by aquatic resource type (wetlands – forested and herbaceous, natural, or man-altered surface waters, upland-cut surface waters)**

*Please see RAI 1 – Table 1 – Total Impact Acreage, attached below.*

**ii. the acreage of completed impacts to all aquatic resources**

*Currently, an approximate total of 314.59 acres of aquatic resources impacts have been completed as of March 2025.*

**iii. a breakdown of that completed acreage by aquatic resource type (wetlands – forested and herbaceous, natural, or man-altered surface waters, upland-cut surface waters)**

*Please see RAI 1 – Table 2 – Completed Impact Acreage, attached below.*

**iv. the acreage of proposed impacts to all aquatic resources**

*Considering the approximate total of 314.59 acres of completed impacts to the aquatic resources, a remaining 425.86 acres of impacts to aquatic resources are currently proposed.*

**v. a breakdown of that proposed acreage by aquatic resource type (wetlands – forested and herbaceous, natural, or man-altered surface waters, upland-cut surface waters)**

*Please see RAI 1 – Table 3 – Remaining Impact Acreage, attached below.*

**b. the proposed construction duration for the proposed project (how long will you need the authorization under Section 404 to discharge dredged or fill material in waters of the United States?)**

*The proposed construction duration for the proposed project will be approximately 10 years.*

**3. Adjacent Property Owners:**

**Please provide a list of adjacent (contiguous) property owners, including the names and correct mailing addresses, for the distribution of the Public Notice. If there are over ten names (when the applicant and any authorized agent are included), please provide self-adhesive mailing labels for each name/address.**

*Attachment 4 – On-Site and Adjacent Parcels, as submitted in the permit application (page 182 of 391) to the USACE on January 2, 2025, is attached below.*

*For your convenience, please note that there are only 7 property owners for the 12 adjacent parcels, therefore no self-adhesive mailing labels are needed.*

**4. Overall Project Purpose:**

**Please provide a proposed overall project purpose. Information about defining a project's purpose and need is available in the SAJ's alternatives analysis memo (as Step 1), here:**

<https://usace.contentdm.oclc.org/utis/getfile/collection/p16021coll15/id/8122>

*The overall project purpose is to conduct heavy mineral mining operations within the Trail Ridge geological formation near Starke, Florida.*

*For addition information, please see the ESD included in the permit application submitted to the USACE on January 2, 2025. Section 1 of the ESD (page 6 of 391) includes a more detailed explanation of the project's purpose, while Section 3.3 (page 24 of 391) includes the Alternative Plan Analysis, which explains why the proposed location was chosen.*

Sincerely,



Kristen Bell  
Senior Project Manager

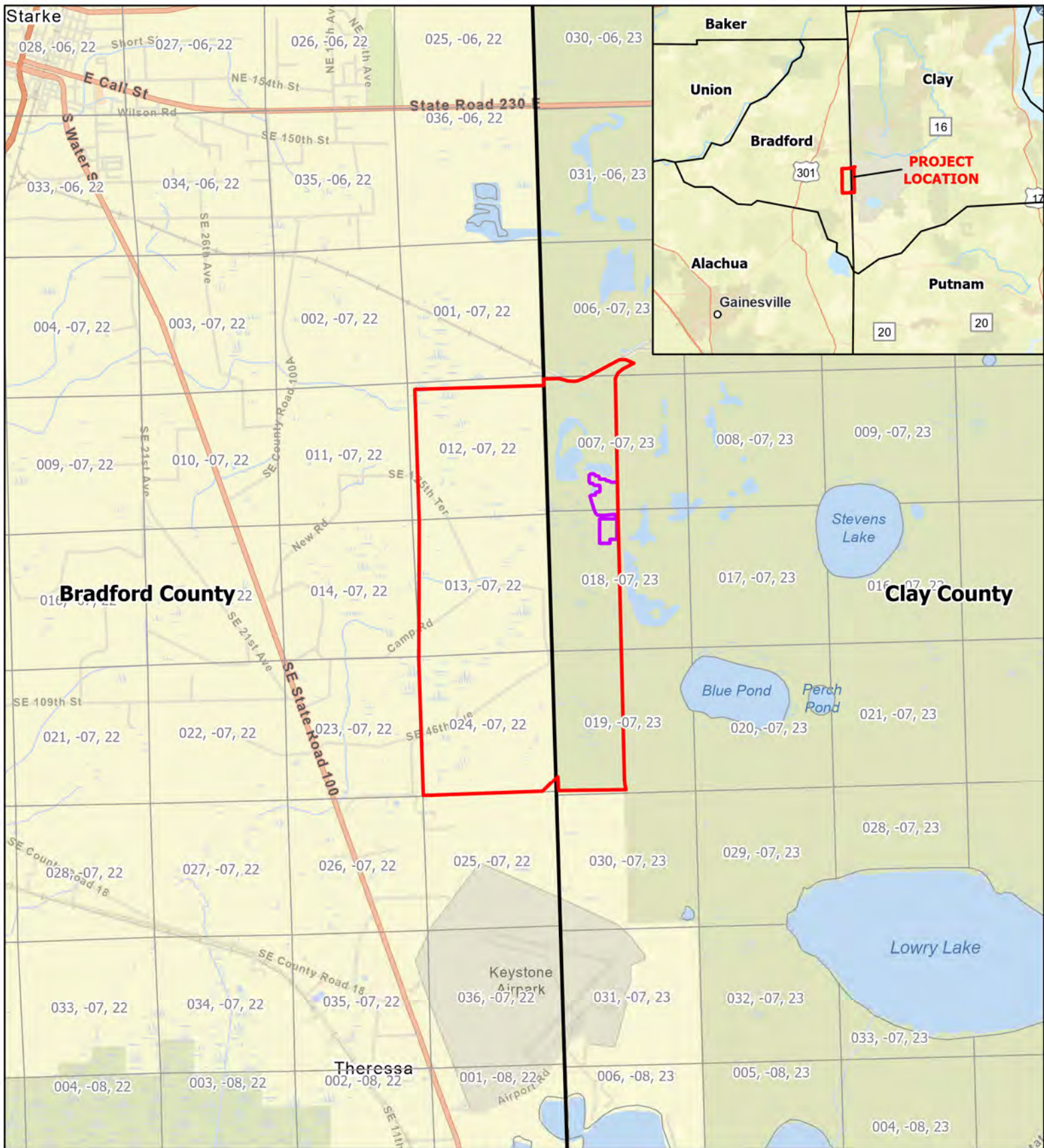
**Enclosures:**

Figure 1 – Location Map  
Figure 10 – Mine Plan Map  
Figures 11A – 11R – Wetland Impact Cross-Sections  
Figure 11 – Wetland Impact Map  
Table 2 – Wetlands and Surface Waters  
Table 3 – Jurisdictional Wetlands Impact Summary  
RAI 1 – Table 1 – Total Impact Acreage  
RAI 1 – Table 2 – Completed Impact Acreage  
RAI 1 – Table 3 – Remaining Impact Acreage  
Attachment A – On-Site and Adjacent Parcels

## **APPENDIX A**

### **Figures**

Figure 1 – Location Map  
Figure 10 – Mine Plan Map  
Figures 11A – 11R – Wetland Impact Cross-Sections  
Figure 11 – Wetland Impact Map



## Legend

- Mine Permit Boundary (± 2,884.4 Ac.)
- Plant Site Boundary (± 44.1 Ac.)

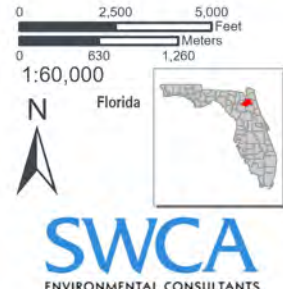
**Figure 1: Location Map**

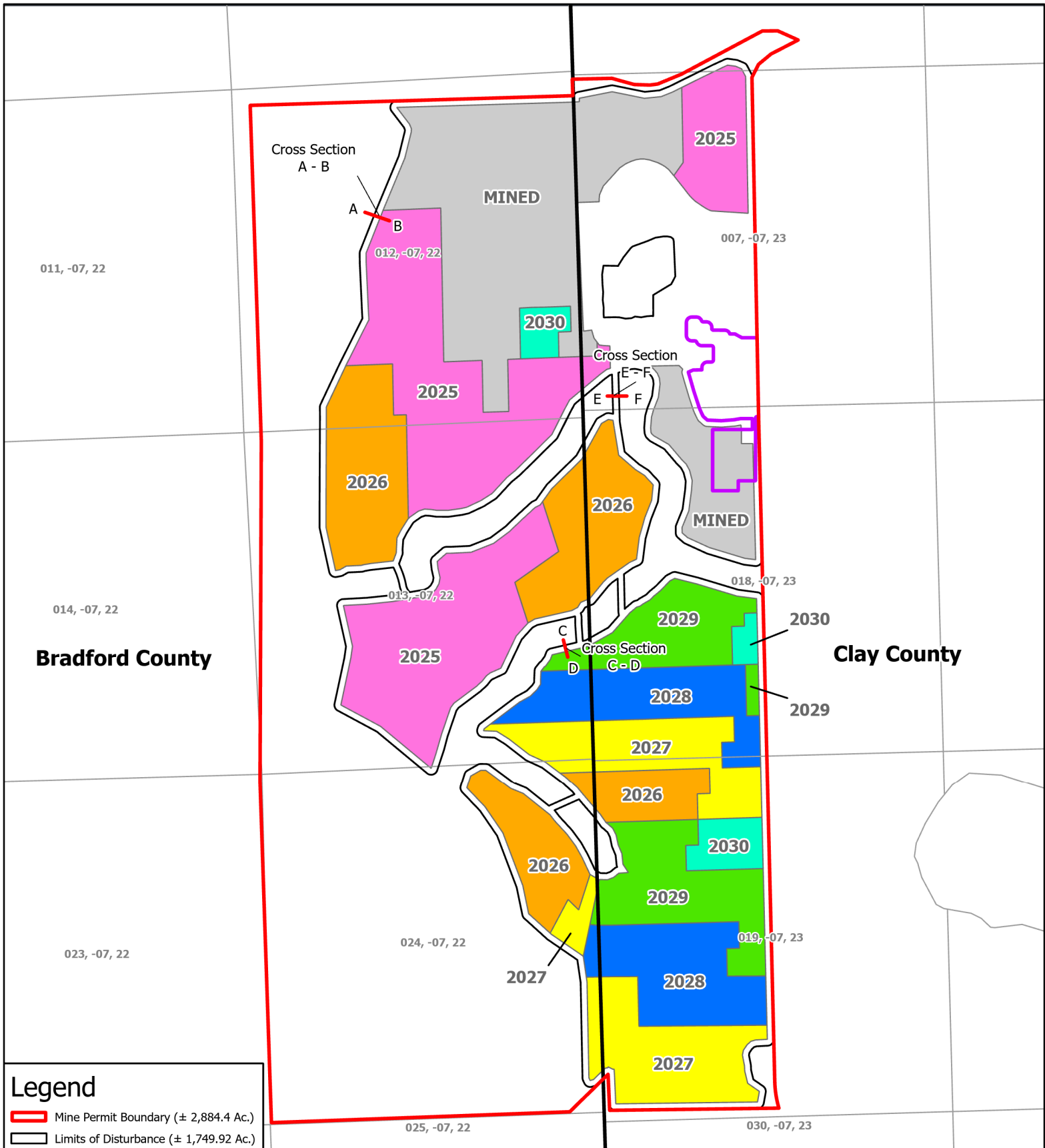
**Trail Ridge South Mine  
93087**

**The Chemours Company FC, LLC  
(29° 53' 7.22" N, 82° 3' 2.40" W)**

Bradford and Clay Counties, Florida

Date: September 2024  
Base map provided by  
ESRI. Property boundary  
provided by Chemours.





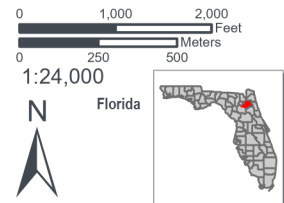
**Figure 10: Mine Plan Map**

**Trail Ridge South Mine  
SWCA Project No. 93087**

**The Chemours Company FC, LLC  
( 25°53'7.22"N, 82° 3'2.40"W)**

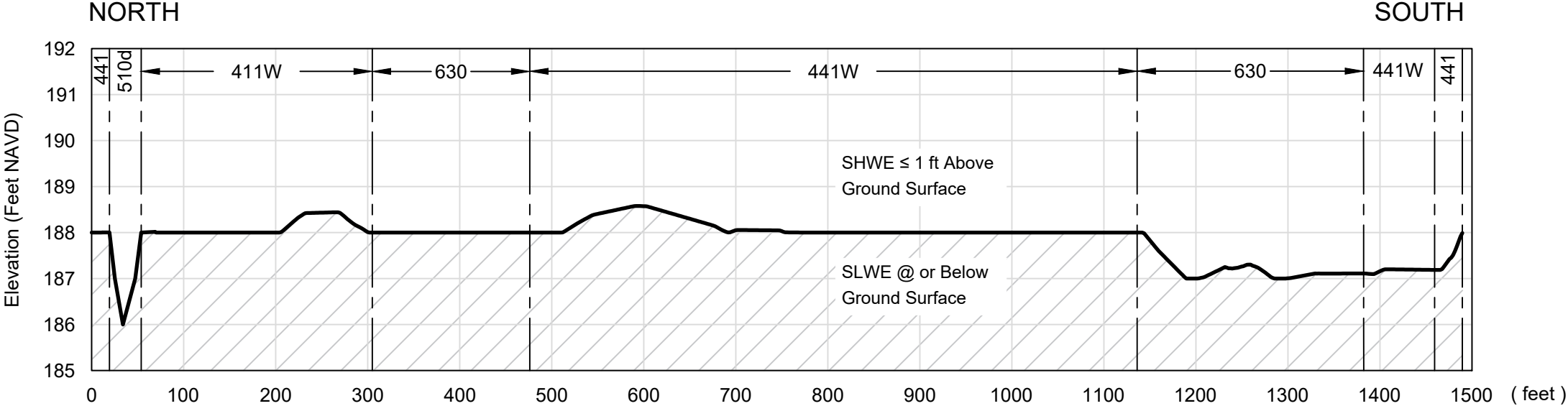
Bradford and Clay Counties, Florida

Date: December 2024  
Property boundary  
provided by Chemours.



**SWCA**  
ENVIRONMENTAL CONSULTANTS

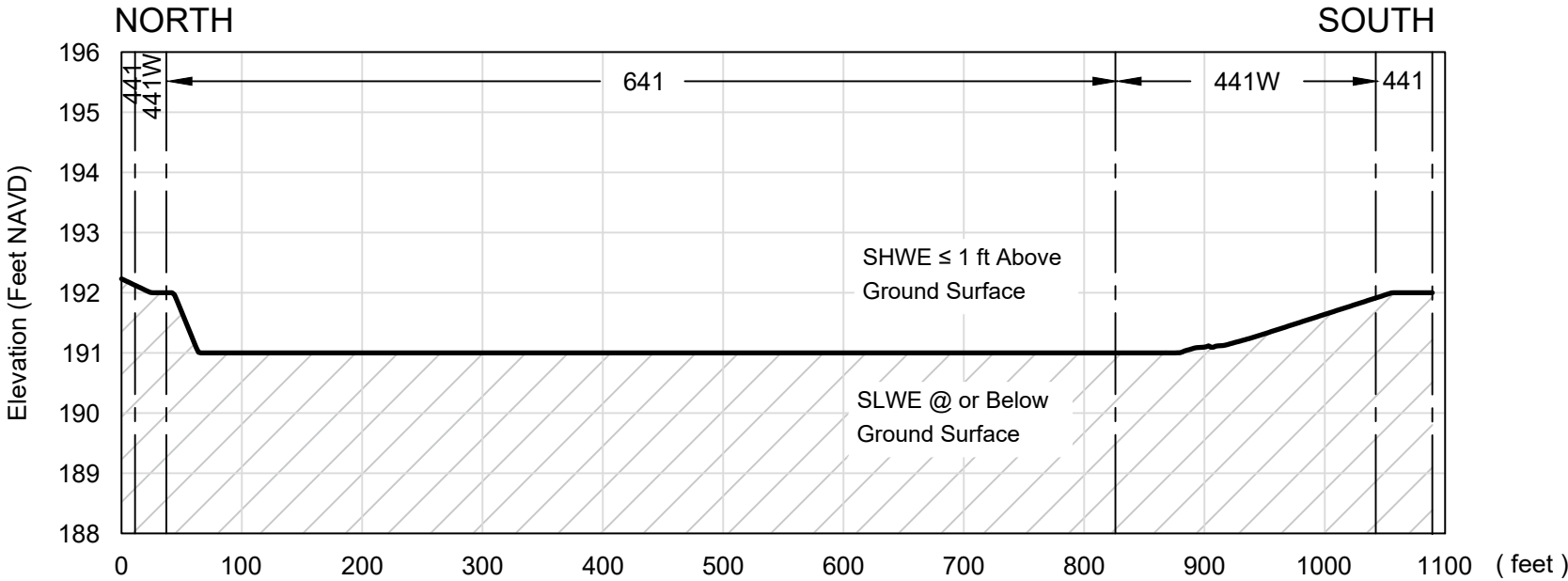
CAD FILE: \\kleinfelder.com\Shares\MOUNTDORA-DATA\GIS\CAD\Chemours\2019\00129491.003A\_Chemours-FL-CY2019 Trail Ridge South\CAD\TRS\_ACOE\_WetlandImpact\_XS.dwg LAYOUT: Wetland Impact 1 & 3 PLOTTED: 11/8/2019 12:36 PM BY: tim desmarais



Wetland 1

LEGEND

- IMPACT
  - UNDISTURBED
  - EXISTING GROUND
  - LAND USE CODE
- 160 - Extractive  
173 - Military  
441 - Coniferous Plantation  
441W- Coniferous Plantation Wetland  
510d - Ditch/Canal  
611 - Bay Swamps  
630 - Wetland Forested Mixed  
631 - Wetland Scrub  
641 - Freshwater Marsh  
8146- Primitive Roads/Trails



Wetland 3

Source: Topography - Southern Resources Mapping, Inc. 2012.

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VERT. 1"=3'



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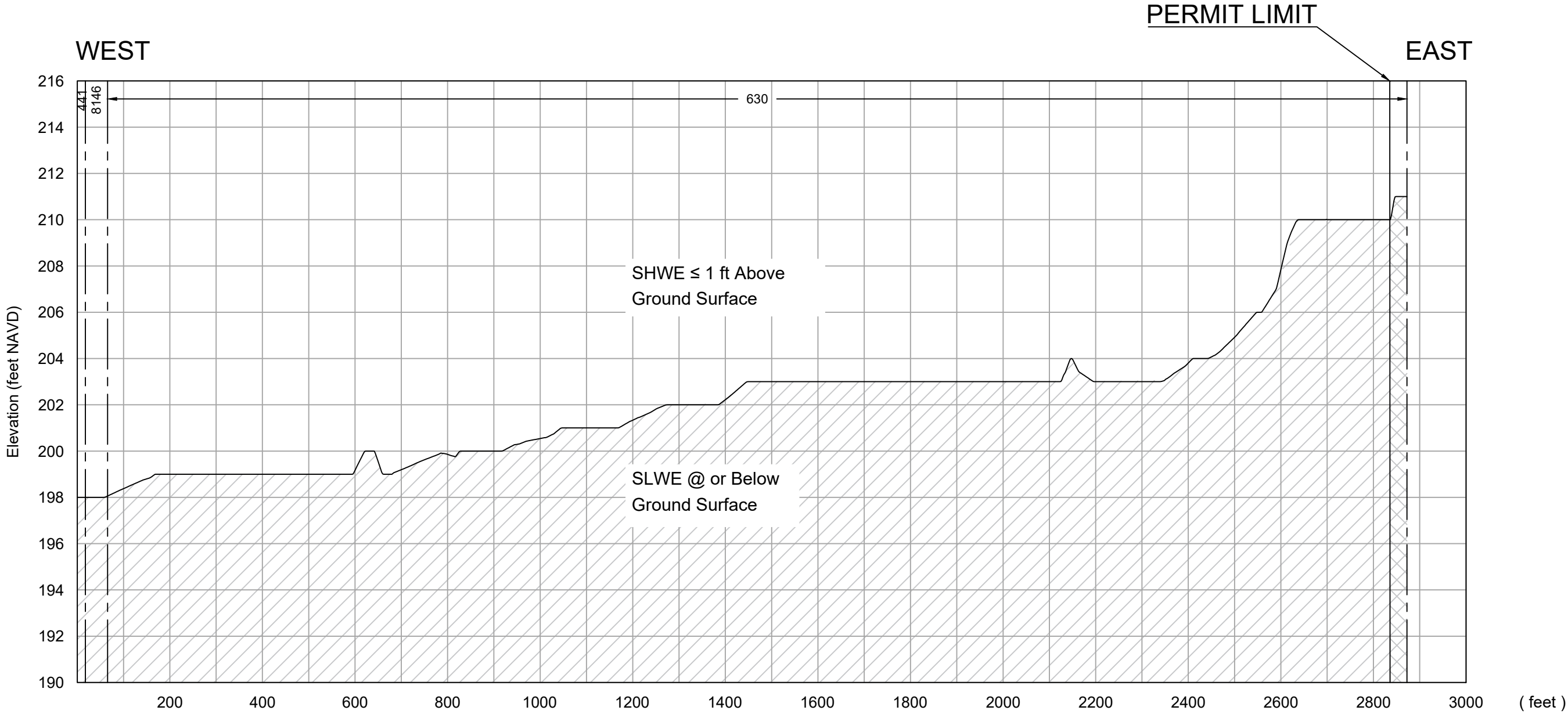
WETLAND IMPACT CROSS-SECTION  
WETLAND 1 & 3

Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

FIGURE

11A

CAD FILE: \\kleinfelder.com\Shares\MOUNTDORA-DATA\GIS\CAD\Chemours\_2019\00129491.003A\_Chemours-FL-CY2019 Trail Ridge South\CAD\TRS\_ACOE\_WetlandImpact\_XS.dwg PLOTTED: 11/8/2019 12:36 PM BY: tim desmarais LAYOUT: Wetland Impact 5



Wetland 5

LEGEND

- IMPACT
- UNDISTURBED
- EXISTING GROUND
- LAND USE CODE

- 160 - Extractive
- 173 - Military
- 441 - Coniferous Plantation
- 441W- Coniferous Plantation Wetland
- 510d - Ditch/Canal
- 611 - Bay Swamps
- 630 - Wetland Forested Mixed
- 631 - Wetland Scrub
- 641 - Freshwater Marsh
- 8146- Primitive Roads/Trails

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SCALE:  
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VERT. 1"=5'



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WETLAND IMPACT CROSS-SECTION WETLAND 5
Trail Ridge South The Chemours Company FC LLC Bradford and Clay Counties, FL

FIGURE
11B
PAGE: 2 of 18

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LEGEND

IMPACT

UNDISTURBED

EXISTING GROUND

LAND USE CODE

160 - Extractive

173 - Military

441 - Coniferous Plantation

441W- Coniferous Plantation Wetland

510d - Ditch/Canal

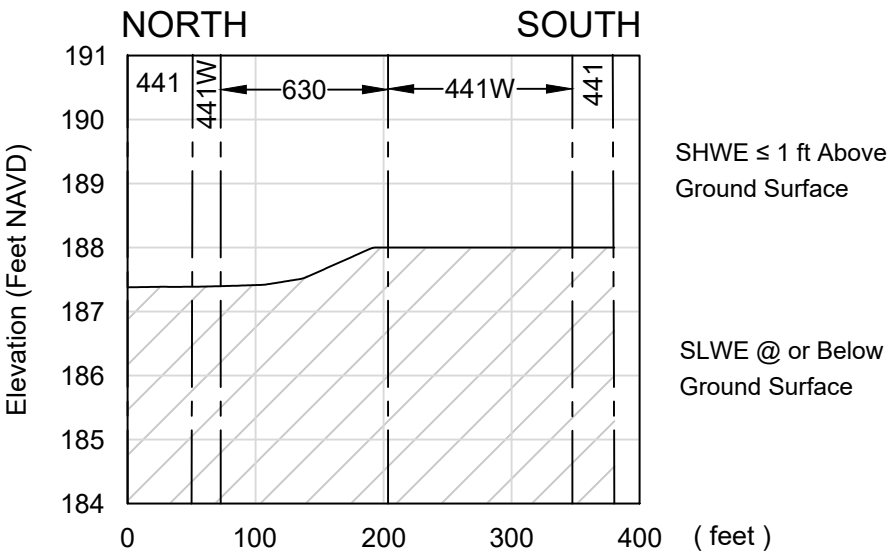
611 - Bay Swamps

630 - Wetland Forested Mixed

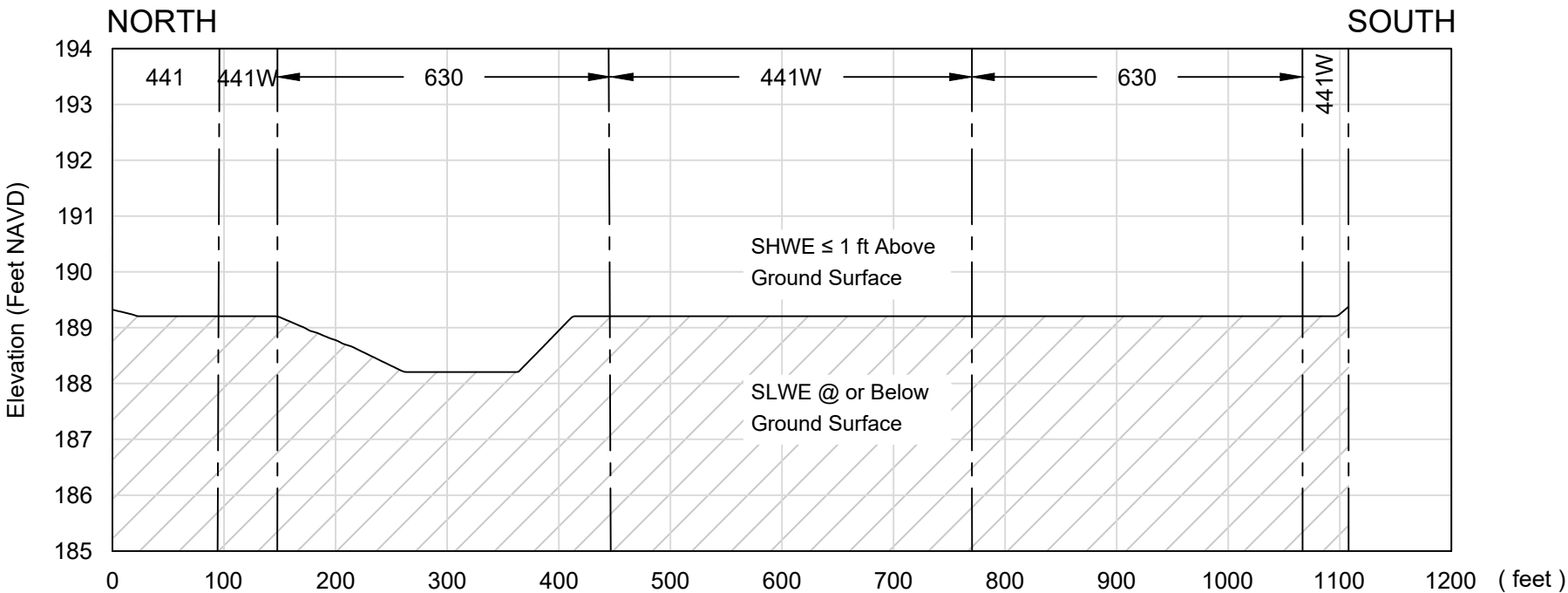
631 - Wetland Scrub

641 - Freshwater Marsh

8146- Primitive Roads/Trails



Wetland 6



Wetland 7

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WETLAND IMPACT CROSS-SECTION  
WETLAND 6 & 7

Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

FIGURE  
**11C**  
PAGE: 3 of 18

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LEGEND

-  IMPACT
-  UNDISTURBED
-  EXISTING GROUND
-  LAND USE CODE

- 160 - Extractive  
173 - Military  
441 - Coniferous Plantation  
441W- Coniferous Plantation Wetland  
510d - Ditch/Canal  
611 - Bay Swamps  
630 - Wetland Forested Mixed  
631 - Wetland Scrub  
641 - Freshwater Marsh  
8146- Primitive Roads/Trails

Source: Topography - Southern Resources Mapping, Inc. 2012.

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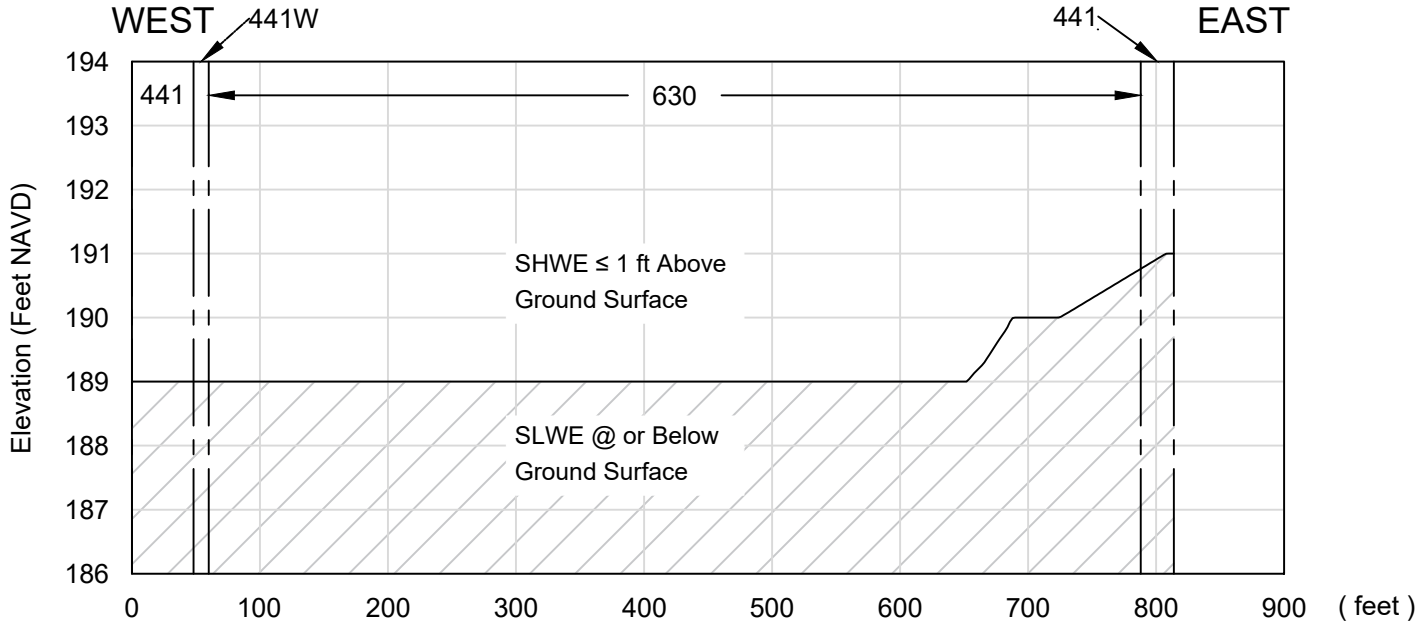
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WETLAND IMPACT CROSS-SECTION  
WETLAND 8

Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

FIGURE

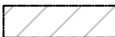



11D



Wetland 8

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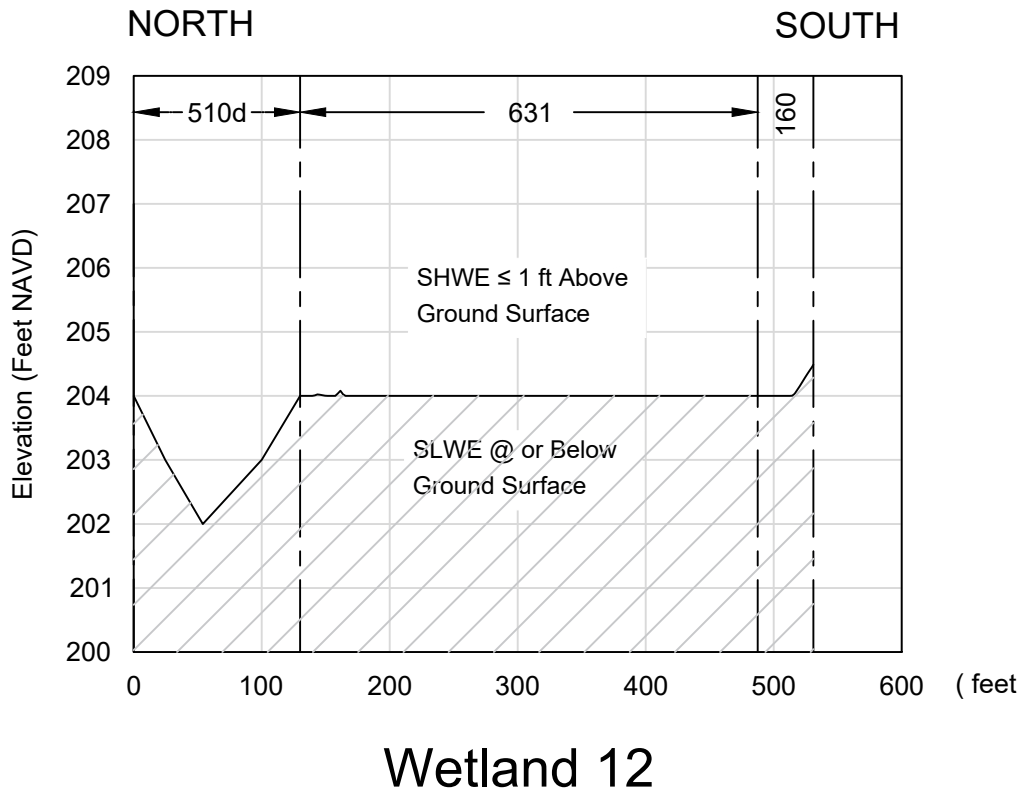
LEGEND

-  IMPACT
-  UNDISTURBED
-  EXISTING GROUND
-  LAND USE CODE

- 160 - Extractive  
173 - Military  
441 - Coniferous Plantation  
441W- Coniferous Plantation Wetland  
510d - Ditch/Canal  
611 - Bay Swamps  
630 - Wetland Forested Mixed  
631 - Wetland Scrub  
641 - Freshwater Marsh  
8146- Primitive Roads/Trails

Source: Topography - Southern Resources Mapping, Inc. 2012.

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WETLAND IMPACT CROSS-SECTION  
WETLAND 12

Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

FIGURE

11E

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LEGEND

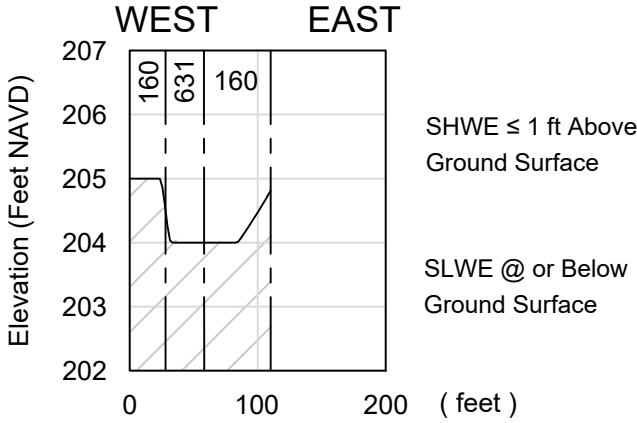
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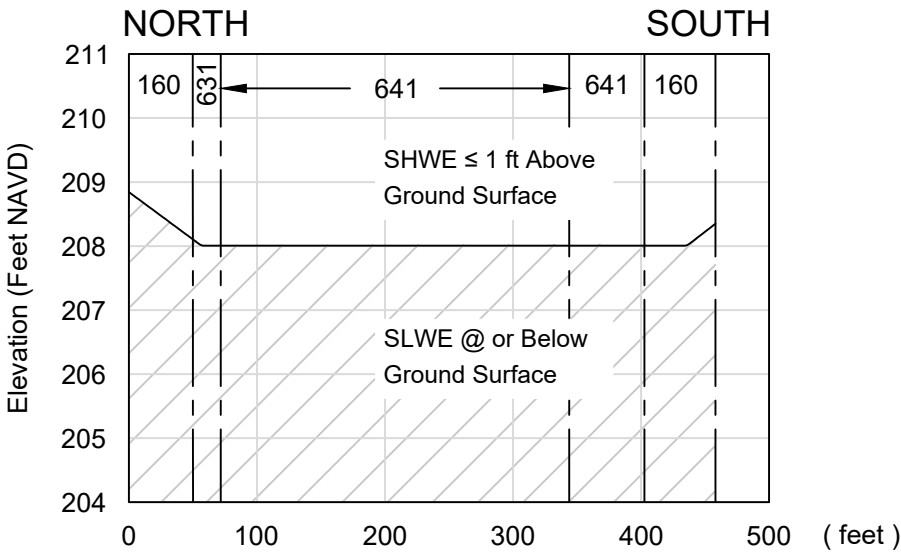
EXISTING GROUND

LAND USE CODE

- 160 - Extractive
- 173 - Military
- 441 - Coniferous Plantation
- 441W- Coniferous Plantation Wetland
- 510d - Ditch/Canal
- 611 - Bay Swamps
- 630 - Wetland Forested Mixed
- 631 - Wetland Scrub
- 641 - Freshwater Marsh
- 8146- Primitive Roads/Trails



Wetland 15



Wetland 16

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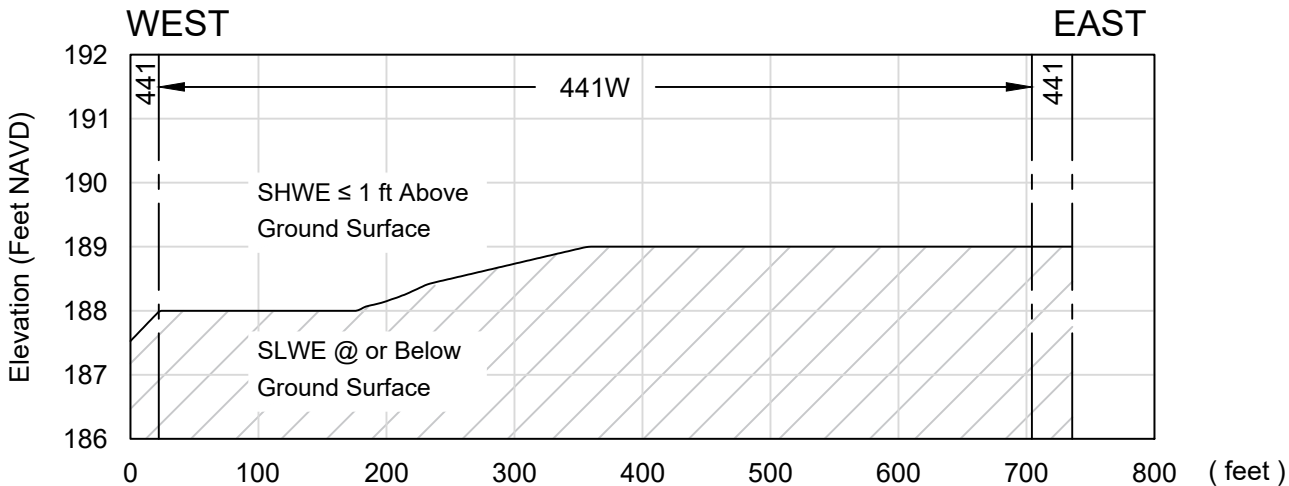
WETLAND IMPACT CROSS-SECTION  
WETLAND 15 & 16

Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

FIGURE

11F

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Wetland 17

- LEGEND
- IMPACT
  - UNDISTURBED
  - EXISTING GROUND
  - LAND USE CODE

- 160 - Extractive
- 173 - Military
- 441 - Coniferous Plantation
- 441W- Coniferous Plantation Wetland
- 510d - Ditch/Canal
- 611 - Bay Swamps
- 630 - Wetland Forested Mixed
- 631 - Wetland Scrub
- 641 - Freshwater Marsh
- 8146- Primitive Roads/Trails

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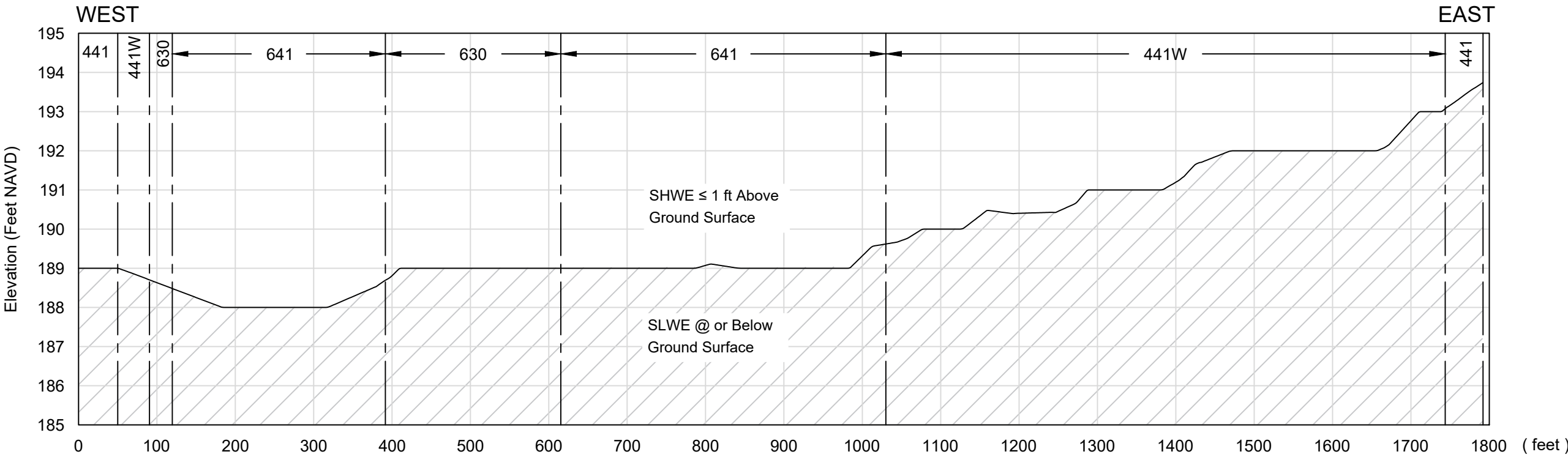


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WETLAND IMPACT CROSS-SECTION  
WETLAND 17  
Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

FIGURE  
11G  
PAGE: 7 of 18

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## Wetland 19

### LEGEND

 IMPACT

 UNDISTURBED

 EXISTING GROUND

 LAND USE CODE

- 160 - Extractive
- 173 - Military
- 441 - Coniferous Plantation
- 441W- Coniferous Plantation Wetland
- 510d - Ditch/Canal
- 611 - Bay Swamps
- 630 - Wetland Forested Mixed
- 631 - Wetland Scrub
- 641 - Freshwater Marsh
- 8146- Primitive Roads/Trails

SCALE:  
HORIZ. 1"= 150'  
VERT. 1"=3'

Source: Topography - Southern Resources  
Mapping, Inc. 2012.

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WETLAND IMPACT CROSS-SECTION  
WETLAND 19





Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

FIGURE

11H

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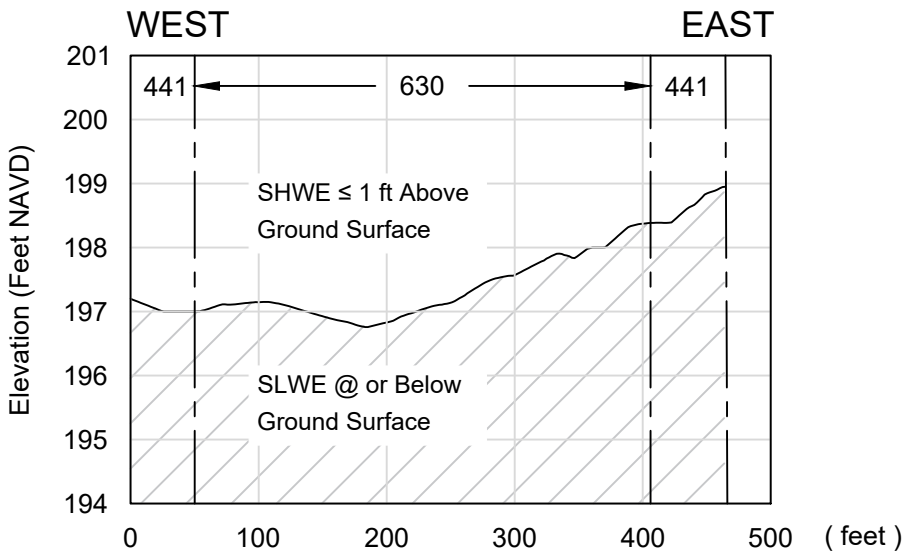
LEGEND

-  IMPACT
-  UNDISTURBED
-  EXISTING GROUND
-  LAND USE CODE

- 160 - Extractive  
173 - Military  
441 - Coniferous Plantation  
441W- Coniferous Plantation Wetland  
510d - Ditch/Canal  
611 - Bay Swamps  
630 - Wetland Forested Mixed  
631 - Wetland Scrub  
641 - Freshwater Marsh  
8146- Primitive Roads/Trails

Source: Topography - Southern Resources Mapping, Inc. 2012.

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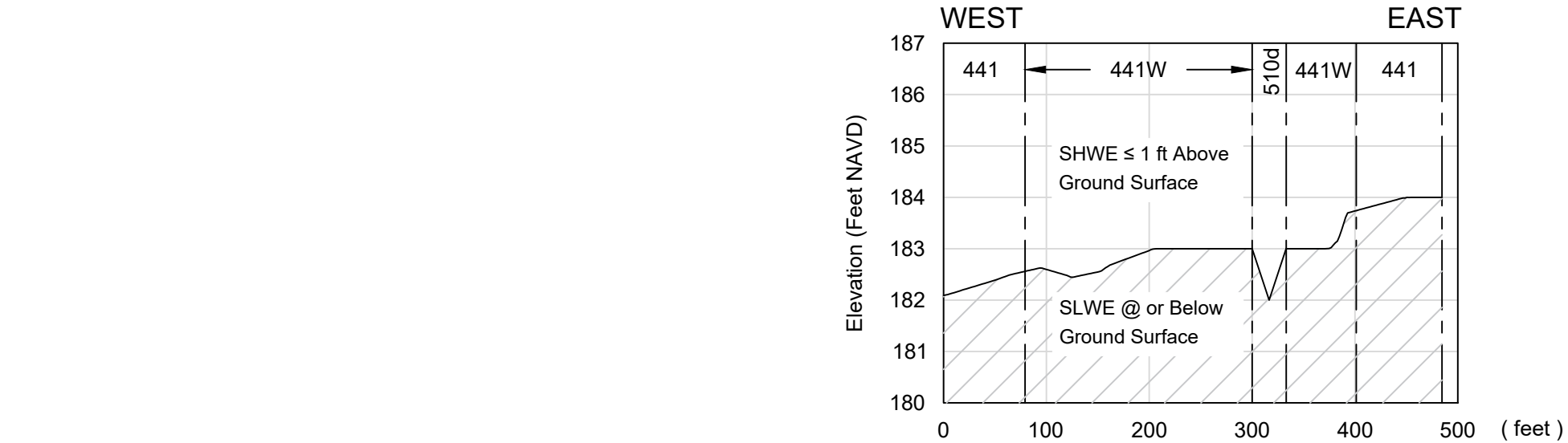
Wetland 21

SCALE:  
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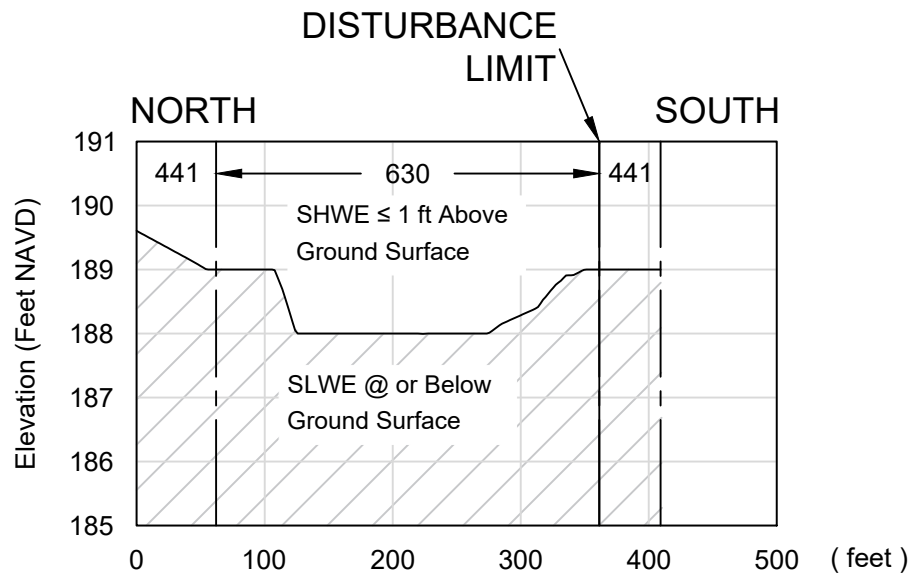


PROJECT NO. 00129491.003A	WETLAND IMPACT CROSS-SECTION WETLAND 21	FIGURE  111
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CHECKED BY TRD	Trail Ridge South The Chemours Company FC LLC Bradford and Clay Counties, FL	PAGE: 9 of 18
DATE: 11-08-2019		
REVISED:		

CAD FILE: \\kleinfelder.com\Shares\MOUNTDORA-DATA\GIS\CAD\Chemours\2019\00129491.003A\_Chemours-FL-CY2019 Trail Ridge South\CAD\TRS\_ACOE\_WetlandImpact\_XS.dwg PLOTTED: 11/8/2019 12:36 PM BY: tim desmarais LAYOUT: Wetland Impact 24



- LEGEND**
- IMPACT
  - UNDISTURBED
  - EXISTING GROUND
  - LAND USE CODE
- 160 - Extractive  
173 - Military  
441 - Coniferous Plantation  
441W- Coniferous Plantation Wetland  
510d - Ditch/Canal  
611 - Bay Swamps  
630 - Wetland Forested Mixed  
631 - Wetland Scrub  
641 - Freshwater Marsh  
8146- Primitive Roads/Trails



Source: Topography - Southern Resources Mapping, Inc. 2012.

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SCALE:  
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VERT. 1"=3'



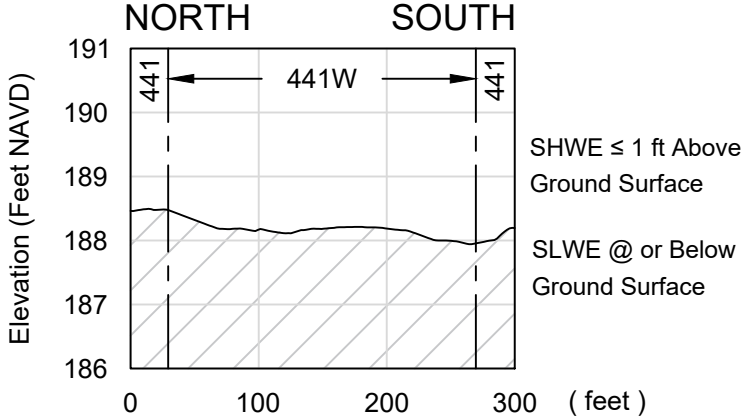
PROJECT NO. 00129491.003A  
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CHECKED BY TRD  
DATE: 11-08-2019  
REVISED:

WETLAND IMPACT CROSS-SECTION  
WETLAND 24

Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

FIGURE  
**11J**  
PAGE: 10 of 18

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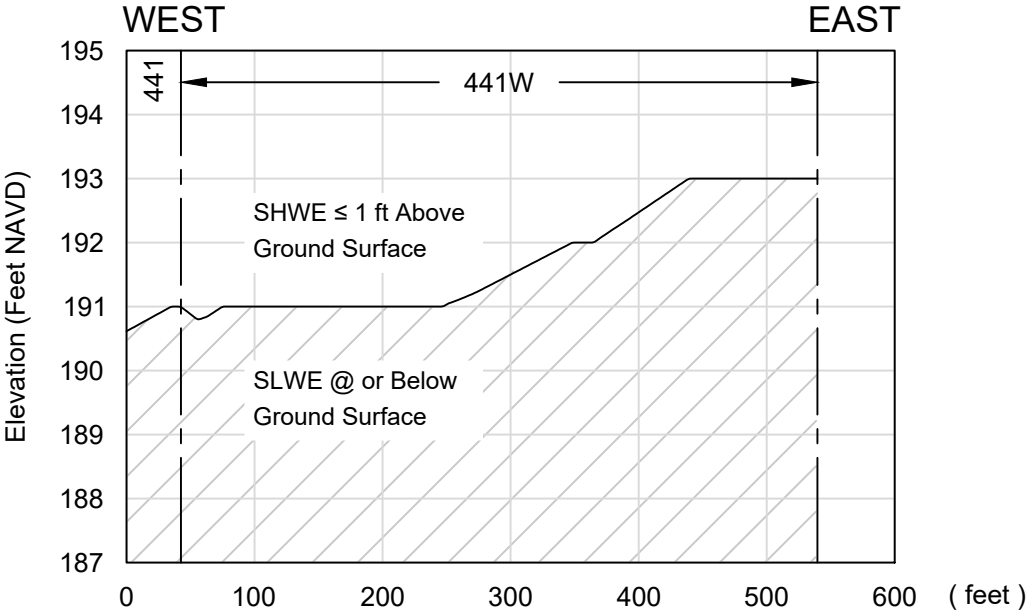


Wetland 25

LEGEND

- IMPACT
- UNDISTURBED
- EXISTING GROUND
- LAND USE CODE

- 160 - Extractive
- 173 - Military
- 441 - Coniferous Plantation
- 441W- Coniferous Plantation Wetland
- 510d - Ditch/Canal
- 611 - Bay Swamps
- 630 - Wetland Forested Mixed
- 631 - Wetland Scrub
- 641 - Freshwater Marsh
- 8146- Primitive Roads/Trails



Wetland 26

SCALE:  
HORIZ. 1"= 150'  
VERT. 1"=3'



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WETLAND IMPACT CROSS-SECTION  
WETLAND 25 & 26

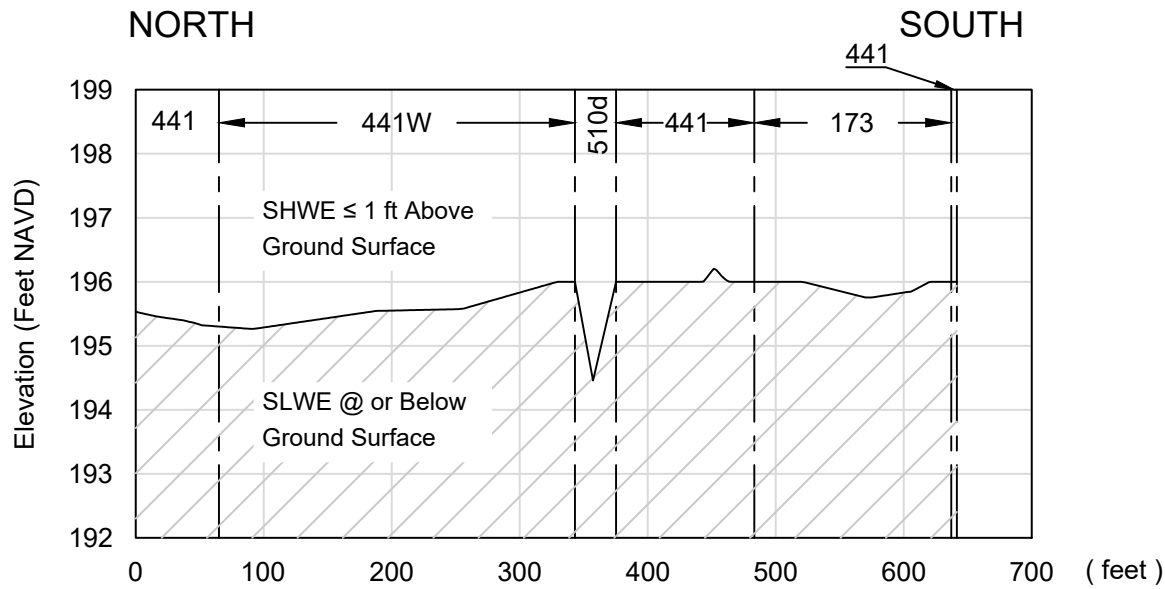
Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

FIGURE

11K

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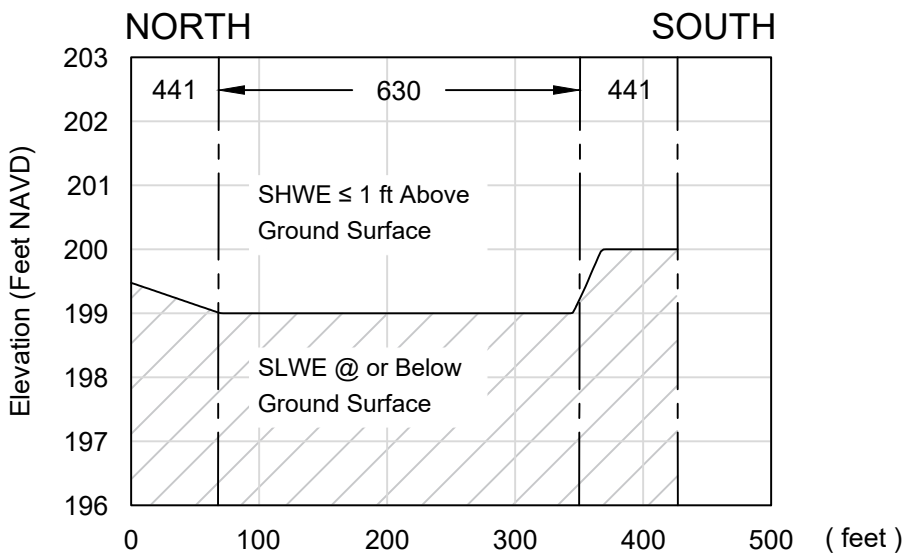
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Wetland 27

LEGEND

- IMPACT
  - UNDISTURBED
  - EXISTING GROUND
  - LAND USE CODE
- 160 - Extractive  
173 - Military  
441 - Coniferous Plantation  
441W- Coniferous Plantation Wetland  
510d - Ditch/Canal  
611 - Bay Swamps  
630 - Wetland Forested Mixed  
631 - Wetland Scrub  
641 - Freshwater Marsh  
8146- Primitive Roads/Trails

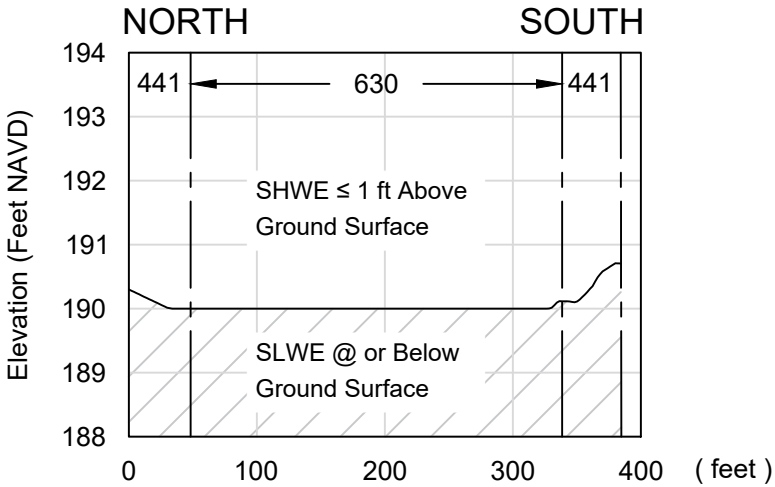


Wetland 28

CAD FILE: \\kleinfelder.com\Shares\MOUNTDORA-DATA\GISCAD\Chemours\2019\00129491.003A\_Chemours-FL-CY2019 Trail Ridge South\CAD\TRS\_ACOE\_WetlandImpact\_XS.dwg      PLOTTED: 11/8/2019 12:36 PM BY: tim desmarais

LEGEND

- IMPACT
- UNDISTURBED
- EXISTING GROUND
- LAND USE CODE
- 160 - Extractive
- 173 - Military
- 441 - Coniferous Plantation
- 441W- Coniferous Plantation Wetland
- 510d - Ditch/Canal
- 611 - Bay Swamps
- 630 - Wetland Forested Mixed
- 631 - Wetland Scrub
- 641 - Freshwater Marsh
- 8146- Primitive Roads/Trails



Wetland 32

SCALE:  
HORIZ. 1"= 150'  
VERT. 1"=3'



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WETLAND IMPACT CROSS-SECTION  
WETLAND 32

Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

FIGURE

11M

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LEGEND

IMPACT

UNDISTURBED

EXISTING GROUND

LAND USE CODE

160 - Extractive

173 - Military

441 - Coniferous Plantation

441W- Coniferous Plantation Wetland

510d - Ditch/Canal

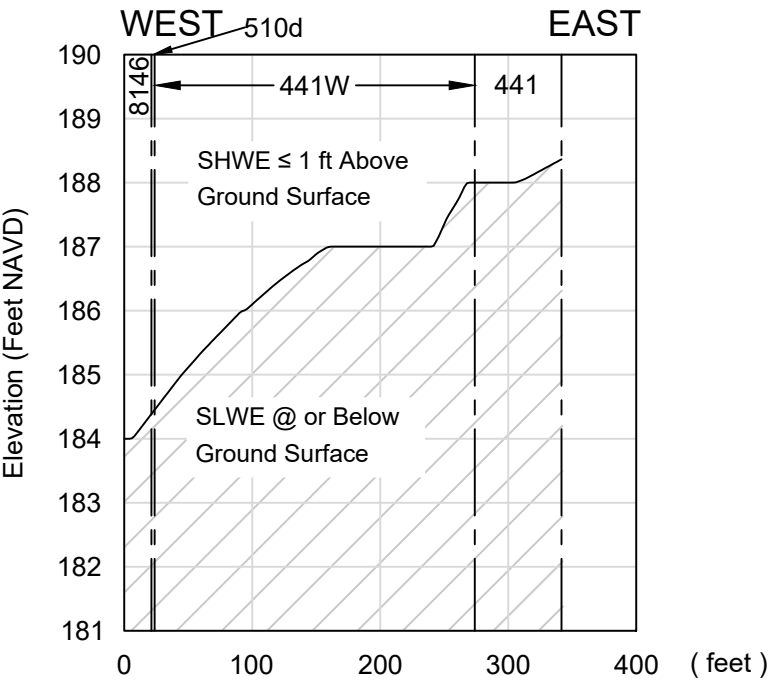
611 - Bay Swamps

630 - Wetland Forested Mixed

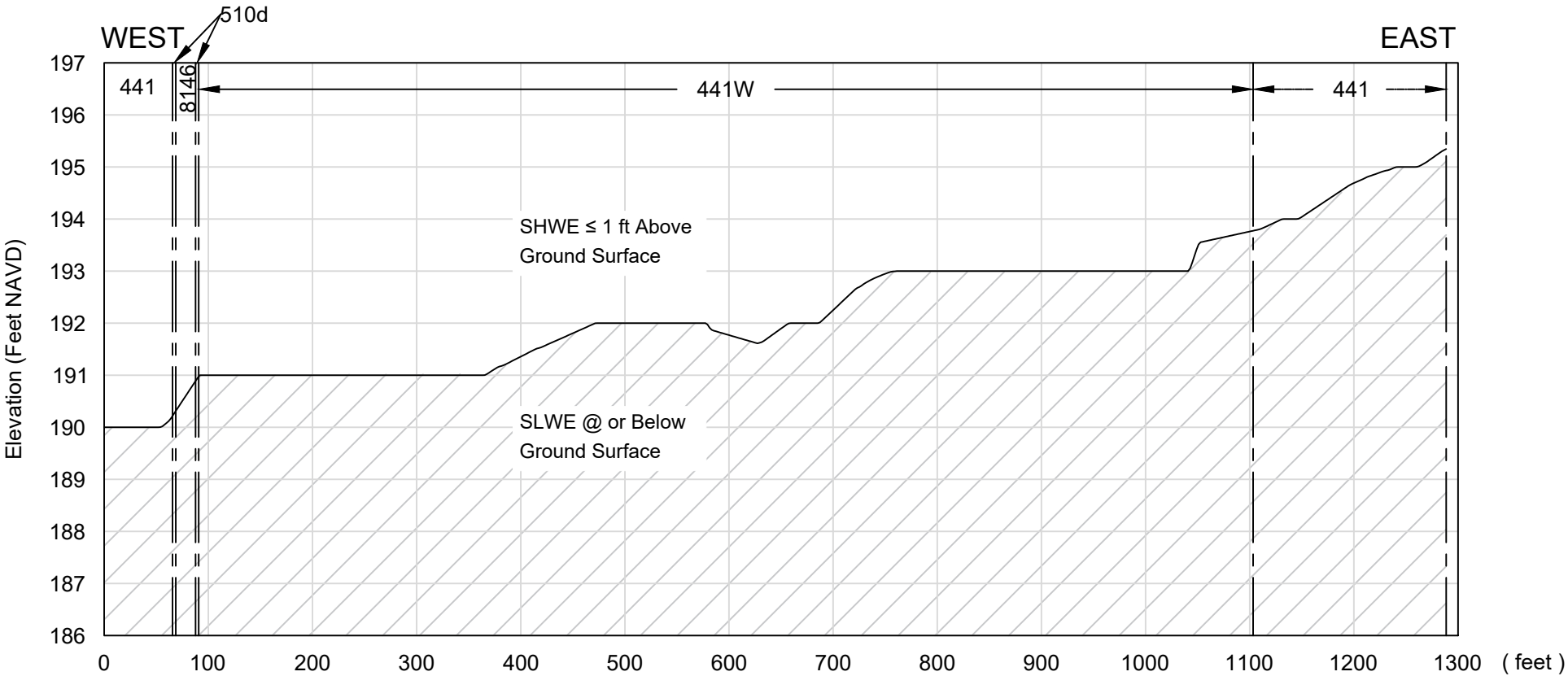
631 - Wetland Scrub

641 - Freshwater Marsh

8146- Primitive Roads/Trails



Wetland 33



Wetland 34-1

Source: Topography - Southern Resources Mapping, Inc. 2012.

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SCALE:  
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REVISED:

WETLAND IMPACT CROSS-SECTION  
WETLAND 33 & 34

Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

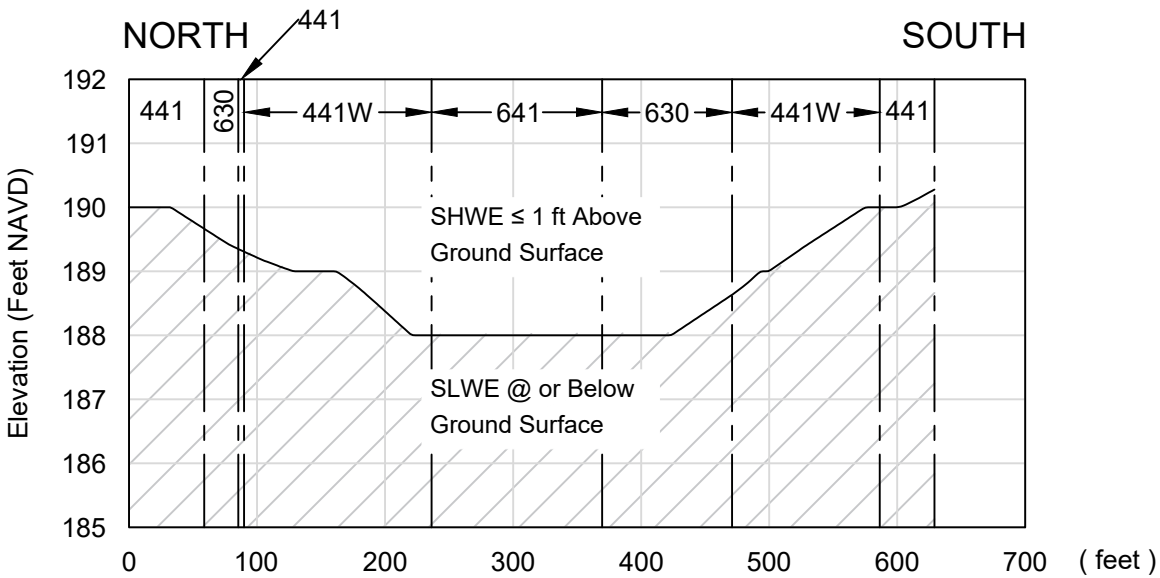
FIGURE

11N

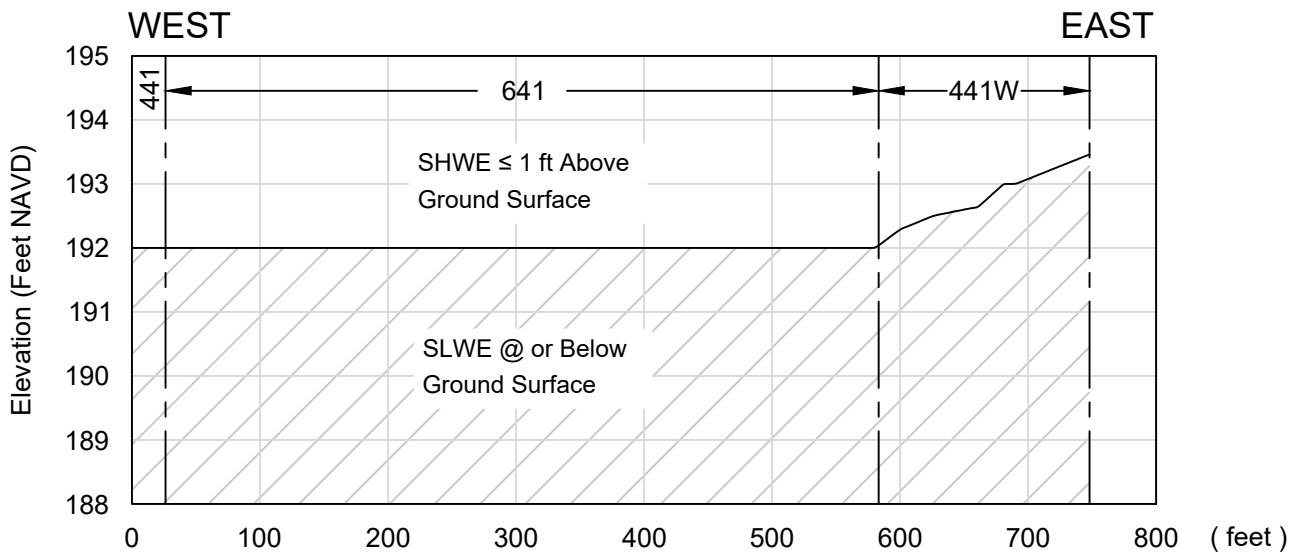
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LEGEND

- IMPACT
- UNDISTURBED
- EXISTING GROUND
- LAND USE CODE
- 160 - Extractive
- 173 - Military
- 441 - Coniferous Plantation
- 441W- Coniferous Plantation Wetland
- 510d - Ditch/Canal
- 611 - Bay Swamps
- 630 - Wetland Forested Mixed
- 631 - Wetland Scrub
- 641 - Freshwater Marsh
- 8146- Primitive Roads/Trails



Wetland 34-2



Wetland-34-3

Source: Topography - Southern Resources Mapping, Inc. 2012.

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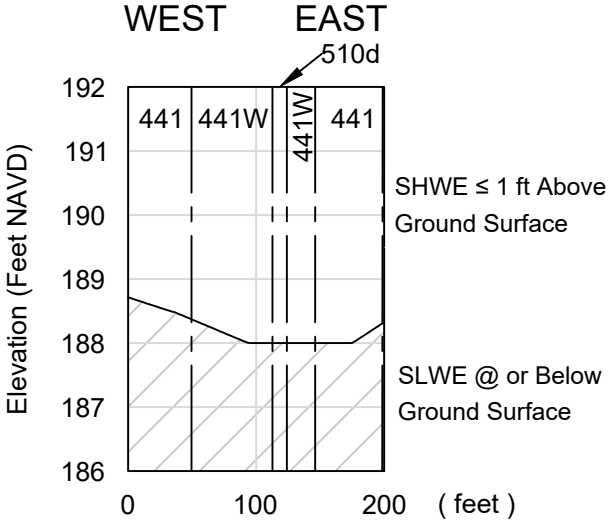
WETLAND IMPACT CROSS-SECTION  
WETLAND 34

Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

FIGURE

110

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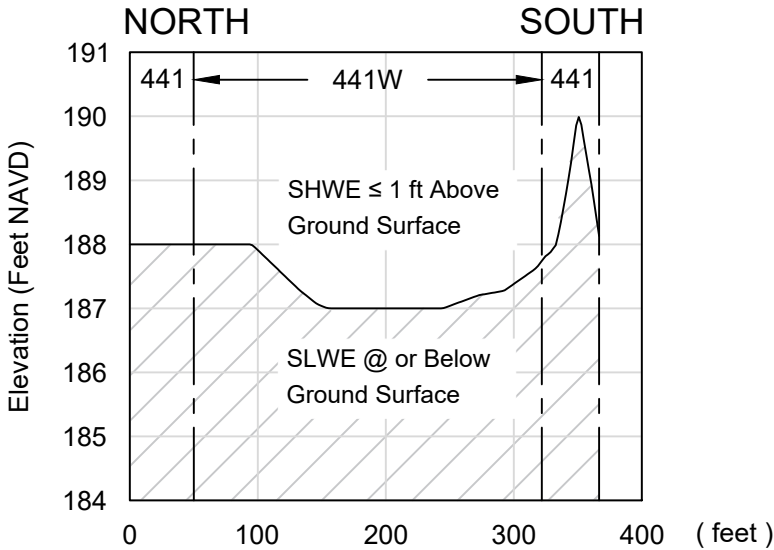


Wetland 38 -1

LEGEND

- IMPACT
- UNDISTURBED
- EXISTING GROUND
- LAND USE CODE

- 160 - Extractive
- 173 - Military
- 441 - Coniferous Plantation
- 441W- Coniferous Plantation Wetland
- 510d - Ditch/Canal
- 611 - Bay Swamps
- 630 - Wetland Forested Mixed
- 631 - Wetland Scrub
- 641 - Freshwater Marsh
- 8146- Primitive Roads/Trails



Wetland 38-2

Source: Topography - Southern Resources Mapping, Inc. 2012.

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WETLAND IMPACT CROSS-SECTION  
WETLAND 38

Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

FIGURE

11P

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LEGEND

IMPACT

UNDISTURBED

EXISTING GROUND

LAND USE CODE

160 - Extractive

173 - Military

441 - Coniferous Plantation

441W- Coniferous Plantation Wetland

510d - Ditch/Canal

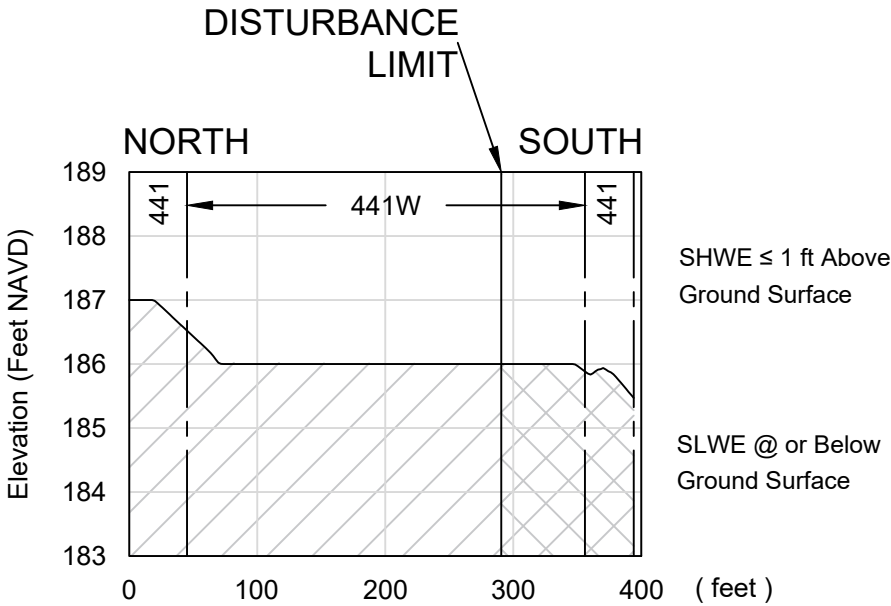
611 - Bay Swamps

630 - Wetland Forested Mixed

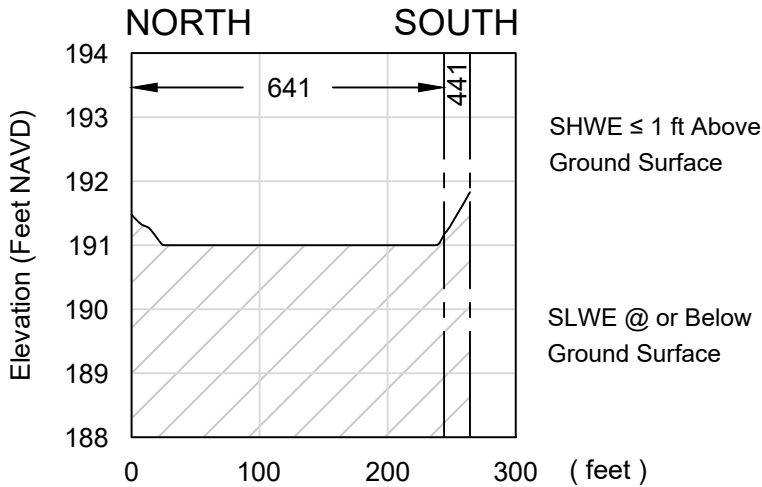
631 - Wetland Scrub

641 - Freshwater Marsh

8146- Primitive Roads/Trails



Wetland 38-3



Wetland 39

Source: Topography - Southern Resources Mapping, Inc. 2012.

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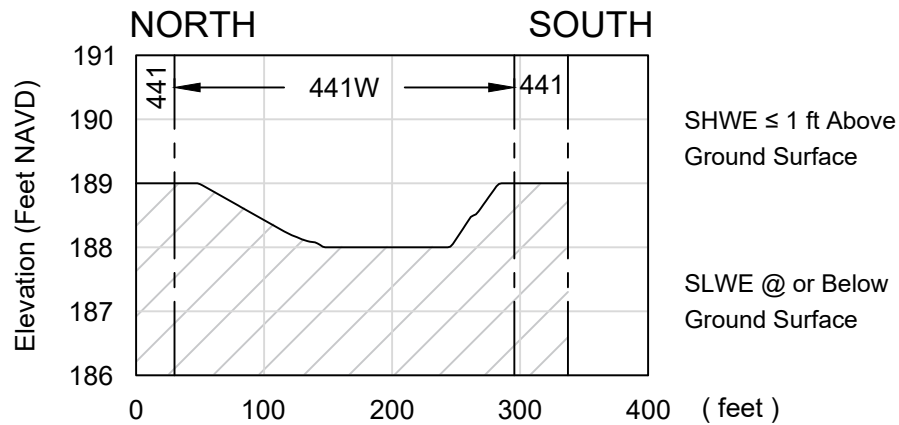
WETLAND IMPACT CROSS-SECTION  
WETLAND 38 & 39

Trail Ridge South  
The Chemours Company FC LLC  
Bradford and Clay Counties, FL

FIGURE

11Q

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Wetland 41

LEGEND

- IMPACT
- UNDISTURBED
- EXISTING GROUND
- LAND USE CODE

- 160 - Extractive
- 173 - Military
- 441 - Coniferous Plantation
- 441W- Coniferous Plantation Wetland
- 510d - Ditch/Canal
- 611 - Bay Swamps
- 630 - Wetland Forested Mixed
- 631 - Wetland Scrub
- 641 - Freshwater Marsh
- 8146- Primitive Roads/Trails

Source: Topography - Southern Resources Mapping, Inc. 2012.

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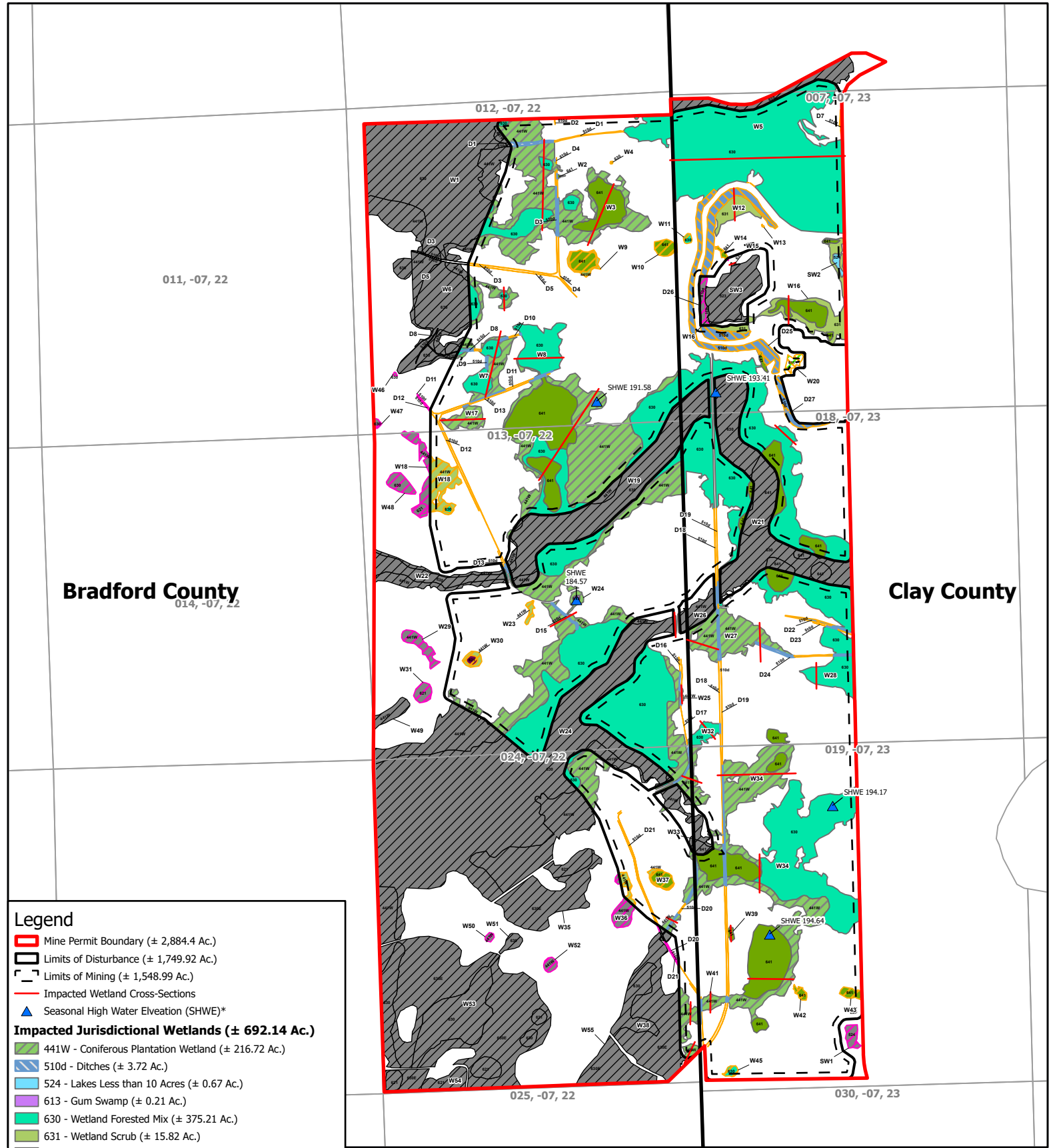
SCALE:  
HORIZ. 1"= 150'  
VERT. 1"=3'



PROJECT NO. 00129491.003A	
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DATE:	11-08-2019
REVISED:	

WETLAND IMPACT CROSS-SECTION WETLAND 41	
Trail Ridge South The Chemours Company FC LLC Bradford and Clay Counties, FL	

FIGURE
11R
PAGE: 18 of 18



- Legend**
- Mine Permit Boundary ( $\pm 2,884.4$  Ac.)
  - Limits of Disturbance ( $\pm 1,749.92$  Ac.)
  - Limits of Mining ( $\pm 1,548.99$  Ac.)
  - Impacted Wetland Cross-Sections
  - Seasonal High Water Elevation (SHWE)\*
- Impacted Jurisdictional Wetlands ( $\pm 692.14$  Ac.)**
- 441W - Coniferous Plantation Wetland ( $\pm 216.72$  Ac.)
  - 510d - Ditches ( $\pm 3.72$  Ac.)
  - 524 - Lakes Less than 10 Acres ( $\pm 0.67$  Ac.)
  - 613 - Gum Swamp ( $\pm 0.21$  Ac.)
  - 630 - Wetland Forested Mix ( $\pm 375.21$  Ac.)
  - 631 - Wetland Scrub ( $\pm 15.82$  Ac.)
  - 641 - Freshwater Marsh ( $\pm 79.79$  Ac.)
- Impacted Non-Jurisdictional Wetlands ( $\pm 48.31$  Ac.)**
- 441W - Coniferous Plantation Wetland ( $\pm 10.81$  Ac.)
  - 510d - Ditch ( $\pm 25.47$  Ac.)
  - 611 - Bay Swamp ( $\pm 1.29$  Ac.)
  - 621 - Cypress ( $\pm 0.51$  Ac.)
  - 630 - Wetland Forested Mix ( $\pm 1.39$  Ac.)
  - 631 - Wetland Scrub ( $\pm 0.02$  Ac.)
  - 641 - Freshwater Marsh ( $\pm 8.82$  Ac.)
- Undisturbed Wetlands ( $\pm 725.96$  Ac.)**
- Undisturbed Jurisdictional Wetlands ( $\pm 706.45$  Ac.)
  - Undisturbed Non-Jurisdictional Wetlands ( $\pm 19.51$  Ac.)

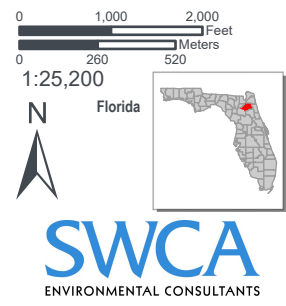
**Figure 11: Wetland Impact Map**

**Trail Ridge South Mine  
93087**

**The Chemours Company FC, LLC**  
( $29^{\circ} 53' 7.22''$  N,  $82^{\circ} 3' 2.40''$  W)

Bradford and Clay Counties, Florida

Date: November 2024  
Base map provided by  
ESRI. Property boundary  
provided by Chemours.



**SWCA**  
ENVIRONMENTAL CONSULTANTS

## **APPENDIX B**

### **Tables**

Table 2 – Wetlands and Surface Waters

Table 3 – Jurisdictional Wetlands Impact Summary

**Table 2**  
**Wetland and Surface Waters**

WL & SW ID	WL & SW TYPE	WL & SW SIZE	WL & SW NOT IMPACTED	TEMPORARY WL & SW IMPACTS			PERMANENT WL & SW IMPACTS			MITIGATION AREA ID
				WL & SW TYPE	IMPACT SIZE	IMPACT CODE	WL & SW TYPE	IMPACT SIZE	IMPACT CODE	
W1	441W	48.19	19.54		28.65					MA 1 / Enhancement
W1	630	84.21	76.32		7.89					MA 1 / Enhancement
W2	641	0.10	0.00		0.10					MA1 / Enhancement
W3	441W	12.85	0.00		12.85					MA 1
W3	630	1.25	0.00		1.25					MA 1
W3	641	8.89	0.00		8.89					MA 1
W4	641	0.04	0.00		0.04					Isolated / Non-Jurisdictional - No Mitigation required
W5	630	119.27	10.50		108.77					MA 1 / Enhancement
W6	441W	13.29	9.04		4.25					MA 3 / Enhancement
W6	630	28.08	25.58		2.50					MA 3 / Enhancement
W7	441W	4.99	0.00		4.99					MA 1 / Enhancement
W7	630	4.90	0.00		4.90					MA 1 / Enhancement
W8	441W	0.41	0.00		0.41					MA 1 / Enhancement
W8	630	11.02	0.00		11.02					MA 1 / Enhancement
W9	441W	0.89	0.00		0.89					Isolated / Non-Jurisdictional - No Mitigation required
W9	641	2.88	0.00		2.88					Isolated / Non-Jurisdictional - No Mitigation required
W10	641	1.87	0.00		1.87					Isolated / Non-Jurisdictional - No Mitigation required
W11	630	0.40	0.00		0.40					Isolated / Non-Jurisdictional - No Mitigation required
W12	631	4.44	0.00		4.44					MA 1 / Enhancement
W13	631	0.02	0.00		0.02					Isolated / Non-Jurisdictional - No Mitigation required
W14	641	0.36	0.00		0.36					Isolated / Non-Jurisdictional - No Mitigation required
W15	631	0.08	0.08							Undisturbed
W16	631	12.57	1.19		11.38					MA 1 / Enhancement
W16	641	5.61	0.00		5.61					MA 1 / Enhancement
W17	441W	4.08	0.00		4.08					MA 4, 5, 6 / Enhancement
W18	441W	10.23	3.66		6.57					Isolated / Non-Jurisdictional - No Mitigation required
W18	630	0.29	0.00		0.29					Isolated / Non-Jurisdictional - No Mitigation required
W18	621	0.84	0.84							Undisturbed
W19	441W	63.03	4.54		58.49					MA 1 / Enhancement
W19	630	92.11	43.60		48.51					MA 1 / Enhancement
W19	641	26.42	0.00		26.42					MA 1 / Enhancement
W20	611	1.29	0.00		1.29					Isolated / Non-Jurisdictional - No Mitigation required
W21	630	98.32	37.81		60.51					MA 1 and 12 / Enhancement
W21	641	25.57	14.77		10.80					MA 1 / Enhancement
W22	441W	6.70	6.60		0.10					MA 11 / Enhancement
W22	630	8.48	8.37		0.11					MA 11 / Enhancement
W23	441W	0.67	0.00		0.67					Isolated / Non-Jurisdictional - No Mitigation required
W24	441W	89.37	53.42		35.95					MA 1 and 7 / Enhancement
W24	613	0.21	0.00		0.21					MA 7 / Enhancement
W24	630	241.56	172.82		68.74					MA 1 and 7 / Enhancement
W25	441W	0.23	0.00		0.23					MA 1 / Enhancement
W26	441W	10.89	4.74		6.15					MA 1 / Enhancement
W27	441W	9.82	0.00		9.82					MA 1 / Enhancement
W28	630	11.82	0.00		11.82					MA 1 / Enhancement
W29	441W	2.73	2.73							Undisturbed
W30	441W	0.87	0.00		0.87					Isolated / Non-Jurisdictional - No Mitigation required
W30	621	0.51	0.00		0.51					Isolated / Non-Jurisdictional - No Mitigation required
W31	621	1.67	1.67							Undisturbed
W32	630	2.77	0.00		2.77					MA 1 / Enhancement
W33	441W	15.28	5.33		9.95					MA 1 / Enhancement
W33	641	5.13	1.11		4.02					MA 1 / Enhancement
W34	441W	33.48	0.00		33.48					MA 1 / Enhancement
W34	630	46.42	0.00		46.42					MA 1 / Enhancement
W34	641	23.52	0.00		23.52					MA 1 / Enhancement
W35	441W	20.48	20.48							Undisturbed
W35	621	4.12	4.12							Undisturbed
W36	441W	4.33	3.04		1.29					Isolated / Non-Jurisdictional - No Mitigation required
W37	441W	0.52	0.00		0.52					Isolated / Non-Jurisdictional - No Mitigation required
W37	641	1.82	0.00		1.82					Isolated / Non-Jurisdictional - No Mitigation required
W38	441W	34.13	28.53		5.60					MA 1 / Enhancement
W38	630	8.33	8.33							Undisturbed
W39	641	0.43	0.00		0.43					MA 9 / Enhancement
W41	441W	1.72	0.00		1.72					MA 1 / Enhancement
W42	641	0.70	0.00		0.70					Isolated / Non-Jurisdictional - No Mitigation required
W43	641	1.16	0.00		1.16					Isolated / Non-Jurisdictional - No Mitigation required

**Table 2**  
**Wetland and Surface Waters**

WL & SW ID	WL & SW TYPE	WL & SW SIZE	WL & SW NOT IMPACTED	TEMPORARY WL & SW IMPACTS			PERMANENT WL & SW IMPACTS			MITIGATION AREA ID
				WL & SW TYPE	IMPACT SIZE	IMPACT CODE	WL & SW TYPE	IMPACT SIZE	IMPACT CODE	
W45	630	0.69	0.00		0.69					Isolated / Non-Jurisdictional - No Mitigation required
W46	630	0.06	0.06							Undisturbed
W47	630	0.33	0.33							Undisturbed
W48	630	2.34	2.34							Undisturbed
W49	441W	2.79	2.79							Undisturbed
W50	441W	0.37	0.37							Undisturbed
W51	630	1.48	1.48							Undisturbed
W52	441W	0.94	0.94							Undisturbed
W53	441W	72.26	72.26							Undisturbed
W53	621	4.30	4.30							Undisturbed
W53	630	33.38	33.38							Undisturbed
W54	441W	3.67	3.67							Undisturbed
W54	621	5.92	5.92							Undisturbed
W55	441W	11.55	11.55							Undisturbed
SW1	524	1.60	1.60							Undisturbed
SW2	524	0.67	0.00		0.67					Enhancement
SW3	523	13.65	13.65							Undisturbed
D1	510d	0.43	0.00		0.43					Upland Cut Ditch - No Mitigation required
D1	510d	0.77	0.08		0.69					Wetland Cut Ditch - Enhancement
D2	510d	0.005	0.00		0.005					Upland Cut Ditch - No Mitigation required
D3	510d	0.34	0.00		0.34					Upland Cut Ditch - No Mitigation required
D3	510d	0.14	0.03		0.11					Wetland Cut Ditch - Enhancement
D4	510d	0.13	0.00		0.13					Upland Cut Ditch - No Mitigation required
D4	510d	0.12	0.00		0.12					Wetland Cut Ditch - Enhancement
D5	510d	0.17	0.00		0.17					Upland Cut Ditch - No Mitigation required
D5	510d	0.05	0.05							Wetland Cut Ditch - Undisturbed
D6	510d	0.01	0.00		0.01					Upland Cut Ditch - No Mitigation required
D7	510d	0.08	0.00		0.08					Upland Cut Ditch - No Mitigation required
D8	510d	0.08	0.00		0.08					Upland Cut Ditch - No Mitigation required
D8	510d	0.41	0.29		0.12					Wetland Cut Ditch - Enhancement
D9	510d	0.13	0.00		0.13					Wetland Cut Ditch - Enhancement
D10	510d	0.11	0.00		0.11					Upland Cut Ditch - No Mitigation required
D10	510d	0.07	0.00		0.07					Wetland Cut Ditch - Enhancement
D11	510d	0.11	0.02		0.09					Upland Cut Ditch - No Mitigation required
D11	510d	0.09	0.01		0.08					Wetland Cut Ditch - Enhancement
D12	510d	0.17	0.03		0.14					Upland Cut Ditch - No Mitigation required
D12	510d	0.001	0.001							Wetland Cut Ditch - Undisturbed
D13	510d	0.38	0.00		0.38					Upland Cut Ditch - No Mitigation required
D13	510d	0.05	0.00		0.05					Wetland Cut Ditch - Enhancement
D14	510d	0.01	0.00		0.01					Upland Cut Ditch - No Mitigation required
D14	510d	0.0002	0.00		0.0002					Wetland Cut Ditch - Enhancement
D15	510d	0.36	0.00		0.36					Wetland Cut Ditch - Enhancement
D16	510d	0.02	0.00		0.02					Upland Cut Ditch - No Mitigation required
D16	510d	0.01	0.00		0.01					Wetland Cut Ditch - Enhancement
D17	510d	0.04	0.00		0.04					Upland Cut Ditch - No Mitigation required
D17	510d	0.10	0.00		0.10					Wetland Cut Ditch - Enhancement
D18	510d	0.65	0.00		0.65					Upland Cut Ditch - No Mitigation required
D18	510d	0.15	0.00		0.15					Wetland Cut Ditch - Enhancement
D19	510d	0.29	0.00		0.29					Upland Cut Ditch - No Mitigation required
D19	510d	0.32	0.00		0.32					Wetland Cut Ditch - Enhancement
D20	510d	0.29	0.04		0.25					Upland Cut Ditch - No Mitigation required
D20	510d	0.68	0.14		0.54					Wetland Cut Ditch - Enhancement
D21	510d	0.09	0.03		0.06					Upland Cut Ditch - No Mitigation required
D21	510d	0.04	0.03		0.01					Wetland Cut Ditch - Enhancement
D22	510d	0.51	0.00		0.51					Upland Cut Ditch - No Mitigation required
D22	510d	0.13	0.00		0.13					Wetland Cut Ditch - Enhancement
D23	510d	0.04	0.01		0.03					Upland Cut Ditch - No Mitigation required
D23	510d	0.01	0.00		0.01					Wetland Cut Ditch - Enhancement
D24	510d	0.32	0.00		0.32					Upland Cut Ditch - No Mitigation required
D24	510d	0.72	0.00		0.72					Wetland Cut Ditch - Enhancement
D25	510d	9.32	0.00		9.32					Upland Cut Ditch - No Mitigation required
D26	510d	11.22	1.80		9.42					Upland Cut Ditch - No Mitigation required
D27	510d	2.58	0.00		2.58					Upland Cut Ditch - No Mitigation required
TOTALS		1466.41	725.96		740.45			0.00		
JURISDICTIONAL TOTALS		1398.59	706.45		692.14			0.00		
NON-JURISDICTIONAL TOTALS		67.82	19.51		48.31			0.00		

Wetland Type: from an established wetland classification system

Impact Type: D=dredge; F=Fill; H=change hydrology; S=shading; C=clearing; O=other

**Table 3**  
**Jurisdictional Wetland Impact Summary**

WETLAND ID	LAND USE	TOTAL (Ac)	TOTAL IMPACTS (Ac)
W1	441W	48.19	28.65
W1	630	84.21	7.89
W2	641	0.10	0.10
W3	441W	12.85	12.85
W3	630	1.25	1.25
W3	641	8.89	8.89
W5	630	119.27	108.77
W6	441W	13.29	4.25
W6	630	28.08	2.50
W7	441W	4.99	4.99
W7	630	4.90	4.90
W8	441W	0.41	0.41
W8	630	11.02	11.02
W12	631	4.44	4.44
W16	631	12.57	11.38
W16	641	5.61	5.61
W17	441W	4.08	4.08
W19	441W	63.03	58.49
W19	630	92.11	48.51
W19	641	26.42	26.42
W21	630	98.32	60.51
W21	641	25.57	10.80
W22	441W	6.70	0.10
W22	630	8.48	0.11
W24	441W	89.37	35.95
W24	613	0.21	0.21
W24	630	241.56	68.74
W25	441W	0.23	0.23
W26	441W	10.89	6.15
W27	441W	9.82	9.82
W28	630	11.82	11.82
W32	630	2.77	2.77
W33	441W	15.28	9.95
W33	641	5.13	4.02
W34	441W	33.48	33.48
W34	630	46.42	46.42
W34	641	23.52	23.52
W38	441W	34.13	5.60
W39	641	0.43	0.43
W41	441W	1.72	1.72
SW2	524	0.67	0.67
D1	510d	0.77	0.69
D3	510d	0.14	0.11
D4	510d	0.12	0.12
D8	510d	0.41	0.12
D9	510d	0.13	0.13
D10	510d	0.07	0.07
D11	510d	0.09	0.08
D13	510d	0.05	0.05
D14	510d	0.0002	0.0002
D15	510d	0.36	0.36
D16	510d	0.01	0.01
D17	510d	0.10	0.10
D18	510d	0.15	0.15
D19	510d	0.32	0.32
D20	510d	0.68	0.54
D21	510d	0.04	0.01
D22	510d	0.13	0.13
D23	510d	0.01	0.01
D24	510d	0.72	0.72
<b>JURISDICTIONAL WETLAND IMPACTS TOTAL</b>		<b>1216.53</b>	<b>692.14</b>

## **APPENDIX C**

### **RAI 1 Tables**

RAI 1 – Table 1 – Total Impact Acreage  
RAI 1 – Table 2 – Completed Impact Acreage  
RAI 1 – Table 3 – Remaining Impact Acreage

RAI 1 - Table 1:  
Total Impact Acreage

Chemours Trail Ridge South Mine  
USACE 404 Permit Application - RAI 1

Aquatic Resource Type	FLUCFCS CODES	JURISDICTIONAL	TOTAL IMPACT ACREAGE
Wetlands - Forested and Herbacious	441W, 613, 630, 631, 641	Yes	687.75
	441W, 611, 621, 630, 631, 641	No	22.84
Natural Surface Waters	524	Yes	0.67
		No	0.00
Man-Altered Surface Waters	510d (Wetland-Cut Ditches)	Yes	3.72
		No	0.00
Upland-Cut Surface Waters	510d (Upland-Cut Ditches)	Yes	0.00
		No	25.47
	Jurisdictional Total		692.14
	Non-Jurisdictional Total		48.31
	Aquatic Resource Total		740.45

RAI 1 - Table 2:  
Completed Impact Acreage

Chemours Trail Ridge South Mine  
USACE 404 Permit Application - RAI 1

Aquatic Resource Type	FLUCFCS CODES	APPROXIMATE IMPACTS COMPLETED AS OF MARCH 2025
Wetlands - Forested and Herbacious	441W, 630, 641	309.06
Natural Surface Waters	524	0.00
Man-Altered Surface Waters	510d (Wetland-Cut Ditches)	1.11
Upland-Cut Surface Waters	510d (Upland-Cut Ditches)	4.42
	<b>Total</b>	<b>314.59</b>

RAI 1 - Table 3:  
Remaining Impact Acreage

Chemours Trail Ridge South Mine  
USACE 404 Permit Application - RAI 1

Aquatic Resource Type	FLUCFCS CODES	APPROXIMATE IMPACTS REMAINING AS OF MARCH 2025
Wetlands - Forested and Herbacious	441W, 611, 621 613, 630, 631, 641	401.53
Natural Surface Waters	524	0.67
Man-Altered Surface Waters	510d (Wetland-Cut Ditches)	2.61
Upland-Cut Surface Waters	510d (Upland-Cut Ditches)	21.05
	<b>Total</b>	<b>425.86</b>

**ATTACHMENT A**

**On-Site and Adjacent Parcels**

**Attachment 4**  
**On-Site and Adjacent Parcels**

Parcel ID	Property Owner Name	Address	Zip Code	County	Acreage
19-07-23-000732-000-00	Armory Board State Of FL	C/O Dept Of Mil Affairs/State Camp Blanding Lands, 82 Marine St, Saint Augustine, FL	320845039	Clay	638.00
18-07-23-000731-017-00	Armory Board State Of FL	C/O Dept Of Mil Affairs/State Camp Blanding Lands, 82 Marine St, Saint Augustine, FL	320845039	Clay	638.00
07-07-23-000731-006-00	Armory Board State Of FL	C/O Dept Of Mil Affairs/State Camp Blanding Lands, 82 Marine St, Saint Augustine, FL	320845039	Clay	638.00
06-07-23-00731-005-00	Armory Board State Of FL	C/O Dept Of Mil Affairs/State Camp Blanding Lands, 82 Marine St, Saint Augustine, FL	320845039	Clay	637.00
04828-0-00000	Suwanee River Water Management District	9225 CR 49, Live Oak, FL	32060	Bradford	632.11
04829-0-00000	Suwanee River Water Management District	9225 CR 49, Live Oak, FL	32060	Bradford	835.00
04986-0-00000	Suwanee River Water Management District	9225 CR 49, Live Oak, FL	32060	Bradford	639.00
30-07-23-000741-000-00	City Of Keystone Heights	Airport 7100 Airport Rd, Starke, FL	32091	Clay	14.54
30-07-23-000740-000-00	Armory Board State Of FL	C/O Dept Of Mil Affairs/State Camp Blanding Lands, 82 Marine St, Saint Augustine, FL	320845039	Clay	14.54
04818-0-00000	Rayonier Tax Services	PO BOX 161139, Mobile, AL	36616	Bradford	546.75
04831-0-00000	Rayonier Tax Services	PO BOX 161139, Mobile, AL	36616	Bradford	605.00
04985-0-00000	Rayonier Tax Services	PO BOX 161139, Mobile, AL	36616	Bradford	634.75
04612-0-00100 10	North Florida Land Trust	2038 GILMORE ST, JACKSONVILLE, FL	32204	Bradford	227.00
04613-0-00000 10	North Florida Land Trust	2039 GILMORE ST, JACKSONVILLE, FL	32204	Bradford	402.27
04993-0-00100 HX H3	Baldree, Robert & Linda	1404 SE 101ST WAY, STARKE, FL	320919348	Bradford	40.00
04991-0-00200	Munen, Delano Lex	8286 SE 11th Ave, Starke, FL	32091	Bradford	12.60
04991-0-00201	Munen, Delano Lex	8286 SE 11th Ave, Starke, FL	32091	Bradford	5.00
04989-0-00000 05	Suwanee River Water Management District	9225 CR 49, Live Oak, FL	32060	Bradford	107.49
04987-0-00000 04	City Of Keystone Heights	Airport 7100 Airport Rd, Starke, FL	32091	Bradford	250.00
	= On-site parcel				