**Stantec Consulting Services Inc.**
5209 Center Street
Williamsburg VA 23188-2680



September 11, 2015
File: 203446520

**Attention: Mr. Randy Steffey and Mr. Ben Stagg**
U.S. Army Corps of Engineers
Norfolk District Office
803 Front Street
Norfolk, VA 23501

Virginia Marine Resources Commission (VMRC)
2600 Washington Avenue, 3rd Floor
Newport News, VA 23607

**Reference: NAO-2012-0080/13-0408 Surry – Skiffes Creek – Whealton Joint Permit Application Revised Graphics**

Dear Mr. Steffey and Mr. Stagg:

On behalf of the applicant, Dominion Virginia Power (Dominion), Stantec Consulting Services, Inc. is providing the attached revised tables and updated graphics from the Joint Permit Application (JPA) for the proposed Surry – Skiffes Creek – Whealton Project.

**Tables**

In response to questions from the Corps concerning the coordinates and other specifics on the river crossing structures, Stantec is providing Tables 1 and 2 to include all current information on these structures. The information provided herein reflects the current engineering and design for the project. Table 1 provides updated subaqueous encroachment of the river towers. Stantec is providing Table 3 to provide VMRC with clarification about which minimum vertical clearances changed as a result of the July 31, 2015 JPA modification request. Additionally, to replace aging infrastructure and make room for the proposed 500 kV Surry-Skiffes Creek transmission line, the existing Line 34 located within James City County between the switching station and the BASF site will be wrecked and then rebuilt and renamed Line 7. Structures for Line 7 will include monopole, H-frame, and 3-pole structures with heights ranging from 39 to 93 feet. One structure, 7/16, will be rebuilt within a wetland. This 3-Pole structure will utilize pipe-pile foundations with a diameter of 36 inches, resulting in a total wetland impact of 21 square feet. Table 4 is an updated table providing all non-tidal wetland impacts. Additionally, the revised impacts table from the JPA is included.

**Figures**

**Reference: NAO-2012-0080/13-0408 Surry – Skiffes Creek – Whealton Joint Permit Application Revised Graphics**

The revised Jurisdictional Area Impacts Map reflects the following updates:

- Updates to the area of subaqueous encroachment for each structure (Sheet 1).
- Minor shift in the locations of structures 582/16 and 582/17 (Sheet 3).
- Addition of the Line 7 Rebuild to include a wetland impact associated with structure 7/16 (Sheet 7).

The revised Navigational Clearances Map reflects the following revisions:

- Update to the footprint of the structures to include the total extent of the concrete foundation caps.
- Inclusion of updated fender design.
- Revised minimum distances to channels and spoil disposal area.

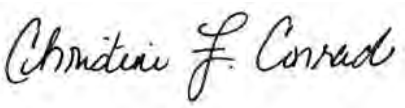
Fender details have also been updated for inclusion in the permit application.

**Closing**

Thank you for your prompt review of the revised information and accompanying materials. If you have any questions or require additional information, please advise me at your earliest convenience.

Regards,

**STANTEC CONSULTING SERVICES INC.**



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Attachments

**Reference: NAO-2012-0080/13-0408 Surry – Skiffes Creek – Whealton Joint Permit Application Revised Graphics**

Cc: Courtney R. Fisher, Virginia Dominion Power

**Table 1**. James River Crossing Structure Information

| Structure No. | Impact No. | Tower Design/ Foundation System | Size of Tower Footprint (ft. x ft.) | Permanent River Bottom Impact (SF) | Subaqueous Encroachment (SF) |
|---|---|---|---|---|---|
| 582/12 | PU1 | 5V DEA/PP8 | 58 x 58 | 118 | 3364 |
| 582/13 | PU2 | 5V HT/PP4 | 39 x 32 | 59 | 1248 |
| 582/14 | PU3 | 5V HT/PP4 | 39 x 32 | 59 | 1248 |
| 582/15 | PU4 | 5V HA/PP8 | 51 x 51 | 118 | 2601 |
| 582/16 | PU5 | 5V HT/PP4 | 39 x 32 | 59 | 1248 |
| 582/17 | PU6 | 5V HT/PP4 | 39 x 32 | 59 | 1248 |
| 582/18 | PU7 | 5V HT/PP4 | 45 x 37 | 59 | 1665 |
| 582/19 | PU8 | 5V HT/PP4 | 45 x 37 | 59 | 1665 |
| 582/20 | PU9 | 5V DEA/PP8 | 58 x 58 | 118 | 3364 |
| 582/21 | PU10 | Channel Crossing/PP10 | 72 x 72 | 148 | 5184 |
| 582/22 | PU11 | Channel Crossing/PP10 | 72 x 72 | 148 | 5184 |
| 582/23 | PU12 | 5V HT/PP4 | 52 x 42 | 59 | 2184 |
| 582/24 | PU13 | 5V HT/PP4 | 52 x 42 | 59 | 2184 |
| 582/25 | PU14 | Channel Crossing/PP10 | 68 x 68 | 148 | 4624 |
| 582/26 | PU15 | Channel Crossing/PP10 | 68 x 68 | 148 | 4624 |
| 582/27 | PU16 | 5V HT/PP4 | 50 x 40 | 59 | 2000 |
| 582/28 | PU17 | 5V HT/PP4 | 50 x 40 | 59 | 2000 |
| 582/21 Fender | PU40 | - | - | 294 | 894 |
| 582/22 Fender | PU40 | - | - | 294 | 894 |
| 582/25 Fender | PU41 | - | - | 294 | 894 |
| 582/26 Fender | PU41 | - | - | 294 | 894 |
| **Total** | | | | **2,712** | **49,211** |

**Reference: NAO-2012-0080/13-0408 Surry – Skiffes Creek – Whealton Joint Permit Application Revised Graphics**

**Table 2**. James River Crossing Structure Coordinates

| Structure No. | Latitude | Longitude |
|---|---|---|
| 582/12 | 37.15747591 | -76.6698668 |
| 582/13 | 37.15930701 | -76.66746385 |
| 582/14 | 37.16113617 | -76.66506327 |
| 582/15 | 37.16296906 | -76.6626576 |
| 582/16 | 37.16469619 | -76.6624485 |
| 582/17 | 37.16756581 | -76.66210105 |
| 582/18 | 37.17087284 | -76.66170061 |
| 582/19 | 37.17428979 | -76.66128683 |
| 582/20 | 37.17762855 | -76.66088247 |
| 582/21 | 37.17829586 | -76.65739686 |
| 582/22 | 37.1792085 | -76.65262881 |
| 582/23 | 37.18052005 | -76.64577472 |
| 582/24 | 37.18158507 | -76.64020728 |
| 582/25 | 37.18268239 | -76.6344694 |
| 582/26 | 37.18333843 | -76.63103815 |
| 582/27 | 37.18450832 | -76.624918 |
| 582/28 | 37.1852669 | -76.62094852 |
| 582/21 Fender - Upstream | 37.17893567 | -76.65787722 |
| 582/21 Fender - Midpoint | 37.17839311 | -76.65712505 |
| 582/21 Fender - Downstream | 37.1775828 | -76.65712123 |
| 582/22 Fender - Upstream | 37.17995299 | -76.65256229 |
| 582/22 Fender - Midpoint | 37.1791968 | -76.6529262 |
| 582/22 Fender - Downstream | 37.17847282 | -76.65247134 |
| 582/25 Fender - Upstream | 37.18336307 | -76.63484319 |
| 582/25 Fender - Midpoint | 37.18273941 | -76.63420893 |
| 582/25 Fender - Downstream | 37.18194444 | -76.63435945 |
| 582/26 Fender - Upstream | 37.18408061 | -76.63108945 |
| 582/26 Fender - Midpoint | 37.1832949 | -76.6313028 |
| 582/26 Fender - Downstream | 37.18264025 | -76.63071934 |

**Reference: NAO-2012-0080/13-0408 Surry – Skiffes Creek – Whealton Joint Permit Application Revised Graphics**

**Table 3**. Aerial Crossings of Subaqueous Bottom Requiring VMRC Authorization

| **Tidal Waters** | | | |
|---|---|---|---|
| **Crossing** | **Tower Numbers** | **Crossing Length (LF)** | **Aug 2013 JPA Minimum Vertical Clearance Above MHW (FT) → Current Minimum Vertical Clearance Above** |
| James River | 582/11 – 582/29 | 21,715 (MLW)<br>21,715 (MHW) | Tribell Shoal Channel:<br>204 → 201<br>Secondary Channel:<br>191 → 188<br>Remainder of River:<br>≥ 60 → ≥ 60 |
| Wood Creek | 582/33 – 582/34 | 23 (MLW)<br>183 (MHW) | 83 → 70 |
| Skiffes Creek | 285/435-285/436 | 194 (MLW)<br>629 (MHW) | 71.5 → 74 |
| **Total Tidal Crossings (LF)** | | **21,932 (MLW)<br>22,527 (MHW)** | |
| **Non-Tidal Waters (drainage area >five square miles)** | | | |
| **Crossing** | **Tower Numbers** | **Crossing Length (LF)** | **Aug 2013 JPA Minimum Vertical Clearance Above MHW (FT) → Current Minimum Vertical Clearance Above** |
| Lee-Hall Reservoir | 285/443 – 285/444 | 49 | > 26 → > 26 |
| Harwood's Mill Reservoir 1 | 209/5725 – 209/573 | 49 | > 26 → > 26 |
| Harwood's Mill Reservoir 2 | 292/590 – 292/591 | 49 | > 26 → > 26 |
| **Total Non-Tidal Crossings (LF)** | | **147** | |

**Reference: NAO-2012-0080/13-0408 Surry – Skiffes Creek – Whealton Joint Permit Application Revised Graphics**

**Table 4.** Non-Tidal Wetland Impacts Table

| Impact Number | Tower Number | Impacts Map Sheet Number | Approximate Impact Area (SF) |
|---|---|---|---|
| PU18 | 2138/47; 285/463 | 13 | 10 |
| PU19 | 2138/49; 58/276 | 13 | 10 |
| PU20 | 2138/50; 58/277 | 13 | 10 |
| PU21 | 2138/51; 58/278 | 13 | 10 |
| PU22 | 2138/52; 58/279 | 13 | 10 |
| PU23 | 2138/53; 58/280 | 13 | 10 |
| PU24 | 2138/54; 58/281 | 13 | 10 |
| PU25 | 2138/55; 58/282 | 13 | 10 |
| PU26 | 2138/60; 58/287 | 14 | 10 |
| PU27 | 2138/61; 58/288 | 14 | 10 |
| PU28 | 2138/62; 58/289 | 14 | 10 |
| PU29 | 2138/63; 58/290 | 14 | 10 |
| PU30 | 2138/95; 292/594 | 16 | 10 |
| PU31 | 2138/96; 292/595 | 16 | 10 |
| PU32 | 2138/99; 292/598 | 17 | 10 |
| PU33 | 2138/108; 292/606 | 18 | 10 |
| PU34 | 2138/109; 292/607 | 18 | 10 |
| PU35 | 2138/114; 292/612 | 18 | 10 |
| PU36 | 2138/133. 292/625 | 20 | 10 |
| PU37 | 2138/134; 292/626 | 21 | 10 |
| PU38 | 2138/135; 292/627 | 21 | 10 |
| PU39 | 2138/136; 292/628 | 21 | 10 |
| PU42 | 2138/65; 58/292 | 14 | 10 |
| PU43 | 2138/69; 58/296 | 14 | 10 |
| PU44 | 2138/73; 58/300 | 15 | 10 |
| PU45 | 209/546 | 13 | 10 |
| PU46 | 7/16 | 7 | 21 |
| **Total Impacts to Non-Tidal Wetlands** | | | 281 |

| WETLANDS, WATERS, AND DUNES/BEACHES IMPACT INFORMATION | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Impact site number PU1 | Impact site number PU2 | Impact site number PU3 | Impact site number PU4 | Impact site number PU5 | Impact site number PU6 | Impact site number PU7 | Impact site number PU8 | Impact site number PU9 | Impact site number PU10 | Impact site number PU11 | Impact site number PU12 | Impact site number PU13 | Impact site number PU14 | Impact site number PU15 | Impact site number PU16 | Impact site number PU17 | Impact site number PU40 | Impact site number PU41 |
| Impact Description (use all that apply) F= Fill EX= excavation S= structure T=tidal NT= non-tidal TE= temporary PE= permanent PR= perennial IN= intermittent SB= subaqueous bottom DB= dune/beach IS= hydrologically isolated V=vegetated NV= non-vegetated MC= mechanized clearing of PFO | Tower 582/12 F, S, T, PE, PR, SB | Tower 582/13 F, S, T, PE, PR, SB | Tower 582/14 F, S, T, PE, PR, SB | Tower 582/15 F, S, T, PE, PR, SB | Tower 582/16 F, S, T, PE, PR, SB | Tower 582/17 F, S, T, PE, PR, SB | Tower 582/18 F, S, T, PE, PR, SB | Tower 582/19 F, S, T, PE, PR, SB | Tower 582/20 F, S, T, PE, PR, SB | Tower 582/21 F, S, T, PE, PR, SB | Tower 582/22 F, S, T, PE, PR, SB | Tower 582/23 F, S, T, PE, PR, SB | Tower 582/24 F, S, T, PE, PR, SB | Tower 582/25 F, S, T, PE, PR, SB | Tower 582/26 F, S, T, PE, PR, SB | Tower 582/27 F, S, T, PE, PR, SB | Tower 582/28 F, S, T, PE, PR, SB | Fender System F, S, T, PE, PR, SB | Fender System F, S, T, PE, PR, SB |
| Wetland/waters impacts area (square feet) | F= 118 SB= 3364 | F= 59 SB= 1248 | F= 59 SB= 1248 | F= 118 SB= 2601 | F= 59 SB= 1248 | F= 59 SB= 1248 | F= 59 SB= 1665 | F= 59 SB= 1665 | F= 118 SB= 3364 | F= 148 SB=5184 | F= 148 SB=5184 | F= 59 SB= 2184 | F= 59 SB= 2184 | F= 148 SB=4624 | F= 148 SB=4624 | F= 59 SB= 2000 | F= 59 SB= 2000 | F= 588 SB= 1788 | F= 588 SB= 1788 |
| Dune/Beach impact area (square feet) | | | | | | | | | | | | | | | | | | | |
| Stream dimensions at impact site (length and average width in linear feet, and in area sq. ft.) | | | | | | | | | | | | | | | | | | | |
| Volume of fill below Mean High Water or Ordinary High Water (cubic yards) | | | | | | | | | | | | | | | | | | | |
| Cowardin classification of impacted wetland/water of geomorphological classification of stream | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 |
| Average stream flow at site (flow rate under normal rainfall conditions) (cubic feet per second) | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. | > 5 $ft^3$/sec. |
| Contributing drainage area (acres or square miles) | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ | >5 $mi^2$ |
| DEQ classification of impacted resource(s): Estuarine Class II Non-tidal waters Class III Mountainous zone water Class IV Stockable trout waters Class V Natural trout waters Class VI Wetlands Class VII | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II | Estuarine Class II |

| WETLANDS, WATERS, AND DUNES/BEACHES IMPACT INFORMATION | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Impact site number PU18 | Impact site number PU19 | Impact site number PU20 | Impact site number PU21 | Impact site number PU22 | Impact site number PU23 | Impact site number PU24 | Impact site number PU25 | Impact site number PU26 | Impact site number PU27 | Impact site number PU28 | Impact site number PU29 | Impact site number PU30 | Impact site number PU31 | Impact site number PU32 | Impact site number PU33 | Impact site number PU34 | Impact site number PU35 | Impact site number PU36 | Impact site number PU37 | Impact site number PU38 | Impact site number PU39 |
| Impact Description (use all that apply)<br>F= Fill<br>EX= excavation<br>S= structure T=tidal<br>NT= non-tidal<br>TE= temporary<br>PE= permanent<br>PR= perennial<br>IN= intermittent<br>SB= subaqueous bottom<br>DB= dune/beach<br>IS= hydrologically isolated<br>V=vegetated<br>NV= non-vegetated<br>MC= mechanized clearing of PFO | Tower 2138/47 (28/463) F, S, NT, PE, V | Tower 2138/49 (58/276) F, S, NT, PE, V | Tower 2138/50 (58/277) F, S, NT, PE, V | Tower 2138/51 (58/278) F, S, NT, PE, V | Tower 2138/52 (58/279) F, S, NT, PE, V | Tower 2138/53 (58/280) F, S, NT, PE, V | Tower 2138/54 (58/281) F, S, NT, PE, V | Tower 2138/55 (58/282) F, S, NT, PE, V | Tower 2138/60 (58/287) F, S, NT, PE, V | Tower 2138/61 (58/288) F, S, NT, PE, V | Tower 2138/62 (58/289) F, S, NT, PE, V | Tower 2138/63 (58/290) F, S, NT, PE, V | Tower 2138/95 (292/594) F, S, NT, PE, V | Tower 2138/96 (292/595) F, S, NT, PE, V | Tower 2138/99 (292/598) F, S, NT, PE, V | Tower 2138/108 (292/606) F, S, NT, PE, V | Tower 2138/109 (292/607) F, S, NT, PE, V | Tower 2138/114 (292/612) F, S, NT, PE, V | Tower 2138/133 (292/625) F, S, NT, PE, V | Tower 2138/134 (292/626) F, S, NT, PE, V | Tower 2138/135 (292/627) F, S, NT, PE, V | Tower 2138/136 (292/628) F, S, NT, PE, V |
| Wetland/waters impacts area (square feet) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Dune/Beach impact area (square feet) | | | | | | | | | | | | | | | | | | | | | | |
| Stream dimensions at impact site (length and average width in linear feet, and in area sq. ft.) | | | | | | | | | | | | | | | | | | | | | | |
| Volume of fill below Mean High Water or Ordinary High Water (cubic yards) | | | | | | | | | | | | | | | | | | | | | | |
| Cowardin classification of impacted wetland/water of geomorphological classification of stream | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS |
| Average stream flow at site (flow rate under normal rainfall conditions) (cubic feet per second) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Contributing drainage area (acres or square miles) | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 mi2 | <5 mi2 | <5 mi2 |
| DEQ classification of impacted resource(s):<br>Estuarine Class II<br>Non-tidal waters Class III<br>Mountainous zone water Class IV<br>Stockable trout waters Class V<br>Natural trout waters Class VI<br>Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII |

| WETLANDS, WATERS, AND DUNES/BEACHES IMPACT INFORMATION | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Impact site number PU42 | Impact site number PU43 | Impact site number PU44 | Impact site number PU45 | Impact site number PU46 | | | | | | | | | | | | | | | | | | |
| Impact Description (use all that apply)<br>F= Fill<br>EX= excavation<br>S= structure T=tidal<br>NT= non-tidal<br>TE= temporary<br>PE= permanent<br>PR= perennial<br>IN= intermittent<br>SB= subaqueous bottom<br>DB= dune/beach<br>IS= hydrologically isolated<br>V=vegetated<br>NV= non-vegetated<br>MC= mechanized clearing of PFO | Tower 2138/65 (58/292) F, S, NT, PE, V | Tower 2138/69 (58/296) F, S, NT, PE, V | Tower 2138/73 (58/300) F, S, NT, PE, V | Tower 209/546 F, S, NT, PE, V | Tower 7/16 F, S, NT, PE, V | | | | | | | | | | | | | | | | | | |
| Wetland/waters impacts area (square feet) | 10 | 10 | 10 | 10 | 21 | | | | | | | | | | | | | | | | | | |
| Dune/Beach impact area (square feet) | | | | | | | | | | | | | | | | | | | | | | | |
| Stream dimensions at impact site (length and average width in linear feet, and in area sq. ft.) | | | | | | | | | | | | | | | | | | | | | | | |
| Volume of fill below Mean High Water or Ordinary High Water (cubic yards) | | | | | | | | | | | | | | | | | | | | | | | |
| Cowardin classification of impacted wetland/water of geomorphological classification of stream | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | PEM/PSS | | | | | | | | | | | | | | | | | | |
| Average stream flow at site (flow rate under normal rainfall conditions) (cubic feet per second) | N/A | N/A | N/A | N/A | N/A | | | | | | | | | | | | | | | | | | |
| Contributing drainage area (acres or square miles) | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | <5 $mi^2$ | | | | | | | | | | | | | | | | | | |
| DEQ classification of impacted resource(s):<br>Estuarine Class II<br>Non-tidal waters Class III<br>Mountainous zone water Class IV<br>Stockable trout waters Class V<br>Natural trout waters Class VI<br>Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | Wetlands Class VII | | | | | | | | | | | | | | | | | | |