EXISTING CONDITIONS (1)

LOCATION: SKAGIT COUNTY

APPLICANT: WDFW

PROPOSED PROJECT: WILEY DIKE REPAIR

DATE: OCT. 15, 2021

SHEET 02 OF 22

NOTES
1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH
   ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
   4.1. NAVD88 = MHW + 7.83'
   4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. OHWM NOT SHOWN IN PLAN VIEW SHEETS FOR LEGIBILITY. OHWM SHOWN ON
   TYPICAL SECTIONS ON SHEETS 11, 12, AND 13
DIKE DISTRICT # 22
RIGHT OF WAY

EXISTING DIKE
TIDEGATE

WETLAND B
WETLAND G

EXISTING HAND
LAUNCH BOAT RAMP
STORMWATER AREA
WETLAND C/D

WETLAND BUFFER

LEGEND
—-—- EXISTING MAJOR CONTOUR
—-—- EXISTING MINOR CONTOUR
CLL CONSTRUCTION LIMIT LINE (CLL)
MHW MEAN HIGH WATER (MHW) (7.83')
HTL HIGH TIDE LEVEL (HTL) (11.20')
WETLANDS
WETLAND BUFFER

NOTES
1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
   4.1. NAVD88 = MHW +7.83'
   4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. OHWM NOT SHOWN IN PLAN VIEW SHEETS FOR LEGIBILITY. OHWM SHOWN ON TYPICAL SECTIONS ON SHEETS 11, 12, AND 13

CORPS REF NO: NWS-2021-460
APPLICANT: WDFW
PROPOSED PROJECT: WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY
TITLE: EXISTING CONDITIONS (1)
DATE: OCT. 15, 2021
SHEET 03 OF 22
Title: TESC & Demolition Plan (1)

Applicant: WDFW

Proposed Project: Wiley Dike Repair

Location: Skagit County

Date: Oct. 15, 2021

Sheet 04 of 22

Notes:
1. Vertical Project Datum: NAVD88
4. Tidal Datum: NAVD88
   4.1 NAVD88 = MHW + 7.83'
   4.2 NAVD88 = HTL + 11.20'
5. Ref Station: La Conner, Swinomish Slough Tide Station 9448558
6. HTL Elevation provided by the US Army Corps.
7. OHWM Not Shown in Plan View Sheets for Legibility. OHWM Shown on Typical Sections on Sheets 11, 12, and 13
8. High Visibility Silt Fence to be used along landward construction limits.
9. Coir Logs to be installed along waterward construction limits.
10. Prior to clearing and grading activities, the contractor shall install all erosion and sediment control best management practices as shown in the TESC Plan and SWPPP.
RELOCATE EXISTING POWER POLE

WETLAND A

WETLAND B

WETLAND C/D

WETLAND G

WETLAND H

RELOCATE EXISTING POWER POLE

DEMO EXISTING FENCE

RELOCATE SIGNS

VAULT TOILET TO BE RELOCATED,
DEMO ASPHALT PARKING

WETLAND A

WETLAND B

WETLAND C/D

WETLAND G

WETLAND H

DEMO EXISTING CURB

DEMO EXISTING GROUNDWATER MONITORING WELLS

RELOCATE SIGNS

REMOVE AND SALVAGE EXISTING DIKE EMBANKMENT MATERIALS FOR REUSE

STRIP AND SALVAGE EXISTING ROAD SURFACE

WETLANDS

EXISTING ROAD SURFACE

RIPARIAN IMPROVEMENT AREA

WOODY VEGETATION FREE ZONE

SCALE IN FEET

0 400 800

NOTES

1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
   4.1. NAVD88 = MHW + 7.83'
   4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. OHWM NOT SHOWN IN PLAN VIEW SHEETS FOR LEGIBILITY. OHWM SHOWN ON TYPICAL SECTIONS ON SHEETS 11, 12, AND 13
8. HIGH VISIBILITY SILT FENCE TO BE USED ALONG LANDWARD CONSTRUCTION LIMITS
9. COIR LOGS TO BE INSTALLED ALONG WATERWARD CONSTRUCTION LIMITS.
10. PRIOR TO CLEARING AND GRADING ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES AS SHOWN IN THE TESC PLAN AND SWPPP.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT: WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: TESC & DEMOLITION PLAN (2)

DATE: OCT. 15, 2021

SHEET 05 OF 22
NOTES
1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
   4.1. NAVD88 = MHW + 7.83'
   4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.

CORPS REF NO: NWS-2021-460
APPLICANT: WDFW
PROPOSED PROJECT: WILEY DIKE REPAIR
LOCATION: SKAGIT COUNTY
TITLE: PROPOSED GRADING PLAN (1)
DATE: OCT. 15, 2021
SHEET 06 OF 22
# Impacts Table

<table>
<thead>
<tr>
<th>Waterbody</th>
<th>Activity</th>
<th>Temporary</th>
<th>Permanent</th>
<th>Excavation</th>
<th>Fill</th>
<th>Conversion from Woody to Herbaceous (square feet)</th>
<th>Estimated Re-establishment (square feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Below Puget Sound OHWM</td>
<td>Dike Repair</td>
<td>17,353</td>
<td>10,631</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Below Puget Sound HTL</td>
<td>Dike Repair</td>
<td>11,459</td>
<td>4,409</td>
<td>602</td>
<td>427</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Wetland A**</td>
<td>Estuarine wetland re-establishment grading</td>
<td>6,360</td>
<td>87</td>
<td>366</td>
<td>21</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Wetland B</td>
<td>Dike Repair</td>
<td>2,694</td>
<td>15,537</td>
<td>575</td>
<td>2525</td>
<td>1075</td>
<td>NA</td>
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<tr>
<td>Wetland E</td>
<td>Dike Repair</td>
<td>577</td>
<td>4,567</td>
<td>189</td>
<td>601</td>
<td>538</td>
<td>NA</td>
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<tr>
<td>Wetland F</td>
<td>Dike Repair</td>
<td>629</td>
<td>2,788</td>
<td>103</td>
<td>361</td>
<td>335</td>
<td>NA</td>
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<tr>
<td>Wetland G</td>
<td>Dike Repair</td>
<td>542</td>
<td>34</td>
<td>1</td>
<td>1</td>
<td>542</td>
<td>NA</td>
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<tr>
<td><strong>TOTAL WETLAND IMPACTS</strong></td>
<td></td>
<td>11,297</td>
<td>23,011</td>
<td>1,247</td>
<td>3,550</td>
<td>2,508</td>
<td>NA</td>
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<tr>
<td><strong>BUFFER IMPACTS</strong></td>
<td></td>
<td>106,888**</td>
<td>70,063</td>
<td>NA</td>
<td>NA</td>
<td>16,114</td>
<td>10,744</td>
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</tbody>
</table>

*THE "BELOW PUGET SOUND HTL" AND "BELOW PUGET SOUND OHWM" QUANTITIES REFLECT DISTURBANCE BELOW EACH RESPECTIVE JURISDICTIONAL BOUNDARY.

**WETLAND A QUANTITIES ARE A SUB-SET OF BELOW PUGET SOUND HTL AND OHWM QUANTITIES.

***TEMPORARY BUFFER IMPACT QUANTITY INCLUDES AREAS WHERE HERBACEOUS BUFFER WILL BE SHIFTED AND RESEEDED ON NEW DIKE SIDE SLOPES.

**CORPS REF NO: NWS-2021-460**

**APPLICANT:** WDFW

**PROPOSED PROJECT:** WILEY DIKE REPAIR

**LOCATION:** SKAGIT COUNTY

**TITLE:** IMPACTS TABLE

**DATE:** OCT. 15, 2021

**SHEET 10 OF 22**
NOTES
1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
   4.1. NAVD88 = MHW + 7.83'
   4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
PROPOSED WDFW ACCESS ROAD
RELOCATE POWER POLE
STAGING AREA
PARKING AREA

BOLLARDS & START OF ROUND RAIL FENCE

BOLLARDS & END ROUND RAIL FENCE

WETLAND A

PROPOSED EAST DIKE RAISE

TEMPORARY WETLAND IMPACTS DUE TO BMP INSTALLATION

RELOCATE POWER POLES

PROPOSED ROUND RAIL FENCE

ESTUARINE WETLAND RE-ESTABLISHMENT AREA

WDFW OFFICE AND PARKING ACCESS RAMP

HAND LAUNCH BOAT RAMP

PARKING AREA

RELOCATE RESTROOM

HAND LAUNCH BOAT RAMP

ADA RAMP

PARKING AREA

PROPOSED ROUND RAIL FENCE

PROPOSED BOAT RAMP REPAIRS (SEPARATE PROJECT)

LEGEND

PROPOSED MAJOR CONTOUR

PROPOSED MINOR CONTOUR

EXISTING MAJOR CONTOUR

EXISTING MINOR CONTOUR

CONSTRUCTION LIMIT LINE (CLL)

ORDINARY HIGH WATER (OHW)

MEAN HIGH WATER (MHW) (7.83')

HIGH TIDE LEVEL (HTL) (11.20')

TEMPORARY WETLAND IMPACT

PERMANENT WETLAND IMPACT

WETLANDS

CRUSHED SURFACING BASE COURSE (CSBC)

PAVEMENT

15' WOODY VEGETATION FREE ZONE

0 200 400
Scale in Feet

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: PROPOSED GRADING PLAN (4)

DATE: OCT. 15, 2021

SHEET 09 OF 22
<table>
<thead>
<tr>
<th>Waterbody</th>
<th>Activity</th>
<th>Impact Area (square feet)</th>
<th>Permanent Volume (cubic yards)</th>
<th>Conversion from Woody to Herbaceous (square feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELOW PUGET SOUND OHWM*</td>
<td>Dike Repair</td>
<td>17,353</td>
<td>10,031</td>
<td>NA</td>
</tr>
<tr>
<td>BELOW PUGET SOUND HTL*</td>
<td>Dike Repair</td>
<td>11,465</td>
<td>4,185</td>
<td>602</td>
</tr>
<tr>
<td>Wetland A**</td>
<td>Estuarine wetland re-establishment grading</td>
<td>6,533</td>
<td>87</td>
<td>398</td>
</tr>
<tr>
<td>Wetland B</td>
<td>Dike Repair</td>
<td>2,963</td>
<td>15,537</td>
<td>575</td>
</tr>
<tr>
<td>Wetland E</td>
<td>Dike Repair</td>
<td>977</td>
<td>4,567</td>
<td>159</td>
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<tr>
<td>Wetland F</td>
<td>Dike Repair</td>
<td>528</td>
<td>2,785</td>
<td>103</td>
</tr>
<tr>
<td>Wetland G</td>
<td>Dike Repair</td>
<td>542</td>
<td>34</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL WETLAND IMPACTS</td>
<td></td>
<td>11,267</td>
<td>23,041</td>
<td>1,247</td>
</tr>
<tr>
<td>BUFFER IMPACTS</td>
<td></td>
<td>105,928**</td>
<td>61,435</td>
<td>NA</td>
</tr>
</tbody>
</table>

*THE "BELOW PUGET SOUND HTL" AND "BELOW PUGET SOUND OHWM" QUANTITIES REFLECT DISTURBANCE BELOW EACH RESPECTIVE JURISDICTIONAL BOUNDARY.

**WETLAND A QUANTITIES ARE A SUB-SET OF BELOW PUGET SOUND HTL AND OHWM QUANTITIES.

***TEMPORARY BUFFER IMPACT QUANTITY INCLUDES AREAS WHERE HERBACEOUS BUFFER WILL BE SHIFTED AND RESESEED ON NEW DIKE SIDE SLOPES.
WEST DIKE TYPICAL SECTION

LEGEND

EXISTING GRADE

DESIGN GRADE

DIKE SELECT BORROW

CRUSHED SURFACING BASE COURSE (CSBC) (6")

BALLAST (6")

GRUB (STRIP) EXISTING DIKE SURFACE (1')

HORIZONTAL DRAINAGE BLANKET

TEMP. CUT SLOPE

FILTER BLANKET (3")

RIPRAP BLANKET

TOPSOIL TYPE B (1')

NOTES

1. VERTICAL PROJECT DATUM: NAVD88

2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT

3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019

4. TIDAL DATUM: NAVD88

4.1. NAVD88 = MHW + 7.83'

4.2. NAVD88 = HTL + 11.20'

5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558

6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:

WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: WEST DIKE TYPICAL SECTION

DATE: OCT. 15, 2021

SHEET 11 OF 22
TITLE: EAST DIKE TYPICAL SECTION

LOCATION: SKAGIT COUNTY

APPLICANT: WDFW

PROPOSED PROJECT: WILEY DIKE REPAIR

DATE: OCT. 15, 2021

CORPS REF NO: NWS-2021-460

NOTES
1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
   4.1. NAVD88 = MHW +7.83'
   4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.

CORPORATE REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT: WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: EAST DIKE TYPICAL SECTION (1)

DATE: OCT. 15, 2021

SHEET 12 OF 22
WETLAND A

PROPOSED WEST DIKE RAISE

TIDEGATE RETROFIT, RETAINING WALL & KNEE WALL

WETLAND A

ACCESS RAMP

PROPOSED EAST DIKE RAISE

LEGEND

PROPOSED MAJOR CONTOUR
PROPOSED MINOR CONTOUR
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
CLL
CONSTRUCTION LIMIT LINE (CLL)

OHWM
ORDINARY HIGH WATER (OHWM)

MHW
MEAN HIGH WATER (MHW) (7.83')

HTL
HIGH TIDE LEVEL (HTL) (11.20')

CRUSHED SURFACING BASE COURSE (CSBC)

PAVEMENT

NOTES
1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
   4.1. NAVD88 = MHW +7.83'
   4.2. NAVD88 = HTL + 11.20'
5. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: TIDEGATE PLAN

DATE: OCT. 15, 2021

SHEET 14 OF 22
NOTES
1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
   4.1. NAVD88 = MHW +7.83'
   4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.

CORPS REF NO: NWS-2021-460
APPLICANT: WDFW
PROPOSED PROJECT: WILEY DIKE REPAIR
LOCATION: SKAGIT COUNTY
TITLE: TIDEGATE DETAIL
DATE: OCT. 15, 2021
SHEET 15 OF 22
NOTES
1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
   4.1. NAVD88 = MHW + 7.83’
   4.2. NAVD88 = HTL + 11.20’
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. ESTUARINE RE-ESTABLISHMENT WILL MITIGATE PERMANENT ESTUARINE WETLAND IMPACTS ASSOCIATED WITH THIS DIKE REPAIR PROJECT. THE WDFW SKAGIT WLA RAMP REPLACEMENT PROJECT (NWS-2020-266) AND WDFW SPUR DIKE REPAIR PROJECT (NWS-2020-238).

CORPS REF NO: NWS-2021-460
APPLICANT: WDFW
PROPOSED PROJECT: WILEY DIKE REPAIR
LOCATION: SKAGIT COUNTY
TITLE: ESTUARINE WETLAND RE-ESTABLISHMENT AREA (1)
DATE: OCT. 15, 2021
SHEET 16 OF 22
TITLE: ESTUARINE WETLAND RE-ESTABLISHMENT AREA (2)
LOCATION: SKAGIT COUNTY
APPLICANT: WDFW
PROPOSED PROJECT: WILEY DIKE REPAIR
DATE: OCT. 15, 2021
CORPS REF NO: NWS-2021-460

NOTES
1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
4.1. NAVD88 = MHW +7.83'
4.2. NAVD88 = HTL +11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. ESTUARINE RE-ESTABLISHMENT WILL MITIGATE PERMANENT ESTUARINE WETLAND IMPACTS ASSOCIATED WITH THIS DIKE REPAIR PROJECT. THE WDFW SKAGIT WLA RAMP REPLACEMENT PROJECT (NWS-2020-266) AND WDFW SPUR DIKE REPAIR PROJECT (NWS-2020-238).
TYPICAL ESTUARINE WETLAND RE-ESTABLISHMENT SECTION

LEGEND

EXISTING GRADE
DESIGN GRADE
DIKE SELECT BORROW
CRUSHED SURFACING BASE COURSE (CSBC) (6")
BALLAST (6")
GRUB (STRIP) EXISTING DIKE SURFACE (1')
HORIZONTAL DRAINAGE BLANKET
FILTER BLANKET (3")
RIPRAP BLANKET
TOPSOIL TYPE B (1')
EXISTING ESTUARINE WETLAND SOIL
MUDFLAT DEPOSITS

NOTES
1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
   4.1. NAVD88 = MHW +7.83'
   4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. MUDFLAT DEPOSITS ARE ASSUMED AND APPROXIMATED BASED ON LIMITED GEOTECHNICAL EXPLORATION DATA.
NOTES
1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
   4.1  NAVD88 = MHW +7.83’
   4.2  NAVD88 = HTL + 11.20’
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. NATIVE WETLAND SEED MIX SHALL BE USED TO RESTORE TEMPORARILY IMPACTED PALUSTRINE (LANDWARD) WETLANDS.
8. NATIVE EROSION CONTROL SEEDING WILL BE APPLIED IN THE TEMPORARILY IMPACTED BUFFER ASSOCIATED WITH BMP INSTALLATION ON BOTH SIDES OF THE DIKE.

CORPS REF NO: NWS-2021-460
APPLICANT: WDFW
PROPOSED PROJECT: WILEY DIKE REPAIR
LOCATION: SKAGIT COUNTY
TITLE: SEEDING & RESTORATION (1)
DATE: OCT. 15, 2021
SHEET 19 OF 22
NOTES

1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
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   4.2. NAVD88 = HTL +11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. NATIVE WETLAND SEED MIX SHALL BE USED TO RESTORE TEMPORARILY IMPACTED PALUSTRINE (LANDWARD) WETLANDS.
8. NATIVE EROSION CONTROL SEEDING WILL BE APPLIED IN THE TEMPORARILY IMPACTED BUFFER ASSOCIATED WITH BMP INSTALLATION ON BOTH SIDES OF THE DIKE.
### Native Erosion Control Seed Mix

<table>
<thead>
<tr>
<th>Botanical Name</th>
<th>Common Name</th>
<th>% by Weight</th>
<th>Seeds per lb of mix</th>
<th>Seeds per lb</th>
<th>Lbs/acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hordeum brachyantherum</td>
<td>Meadow Barley</td>
<td>30</td>
<td>25,500</td>
<td>85,000</td>
<td>13.2</td>
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<tr>
<td>Bromus carinatus</td>
<td>California Brome</td>
<td>25</td>
<td>25,000</td>
<td>100,000</td>
<td>11.0</td>
</tr>
<tr>
<td>Festuca rubra rubra</td>
<td>Native Red Fescue</td>
<td>20</td>
<td>100,000</td>
<td>500,000</td>
<td>8.8</td>
</tr>
<tr>
<td>Elymus glaucus</td>
<td>Blue Wildrye</td>
<td>20</td>
<td>22,000</td>
<td>110,000</td>
<td>8.8</td>
</tr>
<tr>
<td>Deschampsia cespitosa</td>
<td>Tufted Hairgrass</td>
<td>3</td>
<td>45,000</td>
<td>1,500,000</td>
<td>1.3</td>
</tr>
<tr>
<td>Agrostis exerata</td>
<td>Spike Bentgrass</td>
<td>2</td>
<td>76,000</td>
<td>3,800,000</td>
<td>0.9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>100</td>
<td>293,500</td>
<td>6,095,000</td>
<td>44.0</td>
</tr>
</tbody>
</table>

Note: Seed mix sourced from Sunmark Seeds, Inc. Species and associated proportions may be modified with suitable native alternatives as needed. Native erosion control seed mix shall be applied at 44 pounds per acre. Seed mix shall be hydraulically applied in combination with a wood cellulose fiber mulch.

### Native Palustrine Wetland (Landward) Seed Mix

<table>
<thead>
<tr>
<th>Botanical Name</th>
<th>Common Name</th>
<th>% by Weight</th>
<th>Seeds per lb of mix</th>
<th>Seeds per lb</th>
<th>Lbs/acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hordeum brachyantherum</td>
<td>Meadow Barley</td>
<td>35</td>
<td>29,750</td>
<td>85,000</td>
<td>15.3</td>
</tr>
<tr>
<td>Glyceria occidentalis</td>
<td>Northwestern Mannagrass</td>
<td>20</td>
<td>40,200</td>
<td>201,000</td>
<td>8.7</td>
</tr>
<tr>
<td>Festuca rubra rubra</td>
<td>Native Red Fescue</td>
<td>20</td>
<td>95,000</td>
<td>475,000</td>
<td>8.7</td>
</tr>
<tr>
<td>Alopecurus genicualtius</td>
<td>Water Foxtail</td>
<td>13</td>
<td>64,350</td>
<td>495,000</td>
<td>5.7</td>
</tr>
<tr>
<td>Eleocharis palustris</td>
<td>Common Spikerush</td>
<td>5</td>
<td>31,000</td>
<td>620,000</td>
<td>2.2</td>
</tr>
<tr>
<td>Beckmannia syziganche</td>
<td>American Sloughgrass</td>
<td>4</td>
<td>46,000</td>
<td>1,150,000</td>
<td>1.7</td>
</tr>
<tr>
<td>Deschampsia caespitosa</td>
<td>Tufted Hairgrass</td>
<td>2.50</td>
<td>62,500</td>
<td>2,500,000</td>
<td>1.1</td>
</tr>
<tr>
<td>Agrostis exerata</td>
<td>Spike Bentgrass</td>
<td>0.50</td>
<td>19,000</td>
<td>3,800,000</td>
<td>0.2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>100</td>
<td>387,800</td>
<td>9,326,000</td>
<td>43.6</td>
</tr>
</tbody>
</table>

Note: Seed mix sourced from Sunmark Seeds, Inc. Species and associated proportions may be modified with suitable native alternatives as needed. Native wetland seed mix shall be applied to temporarily impacted palustrine wetlands at 44 pounds per acre. Seed mix shall be hydraulically applied in combination with a wood cellulose fiber mulch.

**Corps Ref No:** NWS-2021-460  
**Applicant:** WDFW  
**Proposed Project:** Wiley Dike Repair  
**Location:** Skagit County  
**Title:** Planting Schedule  
**Date:** Oct. 15, 2021  
**Sheet:** 21 of 22
COIR LOG DETAIL

EM.

12" DIA. COIR LOG (TYP)

WOOD STAKE (TYP)

ELEV. 12.0' (TYP)

COIR LOG PLAN VIEW

1/4" DIA. NATURAL FIBER ROPE

2" x 2" x 30" MIN. UNTREATED WOODEN STAKE (TYP)

12" DIA.