March 30, 2019

Ms. Susan Buis  
Ms. Sandi Manning  
U.S. Army Corps of Engineers  
Seattle District, Regulatory Branch  
Seattle, Washington 98124-3755  

RE: SR 7 Culvert Rehabilitation (Mineral Creek)  
NWS-2017-132-DOT  

Dear Ms. Buis and Ms. Manning:

The Washington State Department of Transportation completed quantitative monitoring of the SR 7 Mineral Creek Culvert Rehabilitation to address Year-1 (2018) performance standards. Monitoring activities included vegetation sampling and photo documentation on August 28, 2018. This Year-1 report is being issued for compliance with the reporting requirements of the NWS-2017-132-DOT permit.

<table>
<thead>
<tr>
<th>General Site Information</th>
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<tr>
<td><strong>USACE NWP IP Number</strong></td>
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<td><strong>Mitigation Location</strong></td>
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<td><strong>LLID Number</strong></td>
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<td><strong>Construction Date</strong></td>
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<td><strong>Monitoring Period</strong></td>
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<td><strong>Year of Monitoring</strong></td>
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<td><strong>Type of Impacts</strong></td>
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<td><strong>Area of Project Wetland Impact</strong>¹</td>
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<td><strong>Type of Mitigation</strong></td>
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<td><strong>Area of Mitigation</strong>²</td>
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¹ Impact numbers sourced from Table 1 of the SR-7 Culvert Rehabilitation Memo, WSDOT 2017.  
² Area of mitigation numbers sources from Table 1 of the SR-7 Culvert Rehabilitation Memo, WSDOT 2017.
Site development:

Vegetation communities are in the early stages of development at these culvert replacements. Most of the plants survived, but many redosier dogwood (*Cornus alba*) appeared stressed. Restoration crews installed 600 woody plants in the 2018-2019 planting season. Installed mulch is keeping invasive species low. A stand of *Cirsium* species (thistles) located at the MP 12.51 planting area was treated twice this year.
Results for Performance Standard 1
(On-Site Woody Planting Areas will be planted in accordance with the final contract planting plans):

See planting plans at the end of this document for the two confirmed planting areas at MP 6.11 and MP 12.51.

Results for Performance Standard 2
(At monitoring year 1, there will be a minimum survival rate of 90% for woody species installed in On-Site Woody Planting Areas):

A survival rate of 91% was estimated counting alive versus dead species. Given the small planting areas, a total plant count was used. Planting areas at MP 6.11 had 100% estimated survival (Photo 1). At MP 12.51, redosier dogwood, hardhack (Spiraea douglasii), western serviceberry (Amelanchier alnifolia), and twinberry honeysuckle (Lonicera involucrata) were the dominant species. Over 85% of counted dead species were redosier dogwood.
Results for Performance Standard 3
(Blackberry Species, Scotch Broom, and other invasive nuisance species, and Class A/Class B Designate (WA Dept. of Agriculture and Lewis County Weed Board) noxious weeds will not exceed 15% in the planted areas. Other nuisance species that may affect plant development include volunteer willow, cottonwood, lotus, and erosion control grasses encroaching into bark mulch planting areas):

Overall, invasive species were low. Small patches of non-native blackberry were observed along site edges at MP 12.51. The other nuisance species affecting plant development was Canada thistle (*Cirsium arvense*). This stand was treated twice this past year.

Results for Performance Standard 4
(Japanese knotweed shall not be allowed in any planting area and will be eradicated upon detection. If/when detected, Class A Noxious Weeds (WA Dept. of Agriculture and Lewis County), shall be treated so that the species do not exist on the site. These species shall not be included in the 15% cover allowed for invasive and other nuisance species):

No Class A Noxious Weeds were observed.

Performance Standard 5
(The aerial extent of Reed Canarygrass will be managed at baseline minus 20% to promote growth of native woody species):

Aerial cover of reed canarygrass was visually estimated at 2%. Reed canarygrass will continue to be treated to prevent baseline conditions from increasing.
The Region will continued targeted weed control throughout 2019. Wetland areas at MP 12.51 with sparse cover were planted with 600 shrubs in January 2019. We welcome your questions or comments. Please contact me at 360/570-2588 or by e-mail at Kristen.Andrews@wsdot.wa.gov for questions about these mitigation sites.

Sincerely,

Kristen Andrews
Wetlands Program
Planting Plan for MP 6.11

Access area was not completed due to contractor boring of the culvert pipe.

25 Sword Fern, 60 Snowberry
Planting Plan for MP 12.51