March 30, 2018

Ms. Sandra Manning
U.S. Army Corp of Engineers – Seattle District
P.O. Box 3755
Seattle, WA 98124

RE: SR 4 Elochoman Vic. Culvert Replacements MP 33.84 to 34.19 (Elochoman Culverts) Mitigation Site
   NWS-2014-082-DOT

Dear Ms. Manning,

The Washington State Department of Transportation completed qualitative monitoring of the 004 Elochoman Culverts mitigation site on July 26, 2017, to address Year-3 (2018) performance standards. Monitoring activities included vegetation observations and photo documentation. This Year-2 report is being issued for compliance with the reporting requirements of the U.S. Army Corp of Engineers Nationwide Permit 27 Number NWS-2014-082-DOT.

<table>
<thead>
<tr>
<th>General Site Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>USACE NWP 27 Number</strong></td>
</tr>
<tr>
<td><strong>WDFW HPA Number</strong></td>
</tr>
<tr>
<td><strong>Mitigation Location</strong></td>
</tr>
<tr>
<td><strong>LLID Number</strong></td>
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<tr>
<td><strong>Construction Date</strong></td>
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<tr>
<td><strong>Monitoring Period</strong></td>
</tr>
<tr>
<td><strong>Year of Monitoring</strong></td>
</tr>
<tr>
<td><strong>Type of Impacts</strong></td>
</tr>
<tr>
<td><strong>Area of Project Wetland Impact</strong>1</td>
</tr>
<tr>
<td><strong>Type of Mitigation</strong></td>
</tr>
<tr>
<td><strong>Area of Mitigation</strong></td>
</tr>
</tbody>
</table>

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1 Impact and mitigation numbers sourced from *SR-4 Elochoman Vic. Culvert Replacements MP 33.84 to 34.19 Wetland Assessment and Critical Areas Mitigation Memo* (WSDOT 2014).
### Performance Standards (Year-3) vs. 2017 Results

<table>
<thead>
<tr>
<th>Performance Standards (Year-3)</th>
<th>2017 Results</th>
<th>Management Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>175 native woody shrubs in the wetland restoration areas</td>
<td>45% survival</td>
<td>50 oceanspray <em>(Holodiscus discolor)</em>, 50 salmonberry <em>(Rubus spectabilis)</em>, and 50 snowberry <em>(Symphoricarpos albus)</em> planted on 1/11/2017</td>
</tr>
<tr>
<td>175 native woody shrubs in the buffer enhancement areas</td>
<td>60% survival</td>
<td></td>
</tr>
<tr>
<td>175 native emergent plants in the wetland restoration areas</td>
<td>50% survival</td>
<td>Purple loosestrife observed and reported</td>
</tr>
<tr>
<td>No Class A noxious weeds, purple loosestrife <em>(Lythrum salicaria)</em>, or paleyelllow <em>iris</em> <em>(Iris pseudacorus)</em> across the site</td>
<td></td>
<td>Weed control activity performed on 8/1/2017</td>
</tr>
<tr>
<td>Reed canarygrass <em>(Phalaris arundinacea)</em> not out-competing the planted woody species</td>
<td>None observed</td>
<td></td>
</tr>
<tr>
<td>80% survival of vegetative cuttings in the riparian area (HPA)</td>
<td>45% survival</td>
<td></td>
</tr>
</tbody>
</table>

### Site development:

The site is doing well, plants continue to establish and will benefit from routine weed control and the removal of noxious weeds.
Results for Performance Standard 1
(175 native woody shrubs in the wetland restoration areas):

Survival of native woody shrubs is qualitatively estimated at 45 percent.

Results for Performance Standard 2
(175 native woody shrubs in the buffer enhancement areas):

Survival of native woody shrubs is qualitatively estimated at 60 percent.

Results for Performance Standard 3
(175 native emergent plants in the wetland restoration areas):

Survival of native emergent plants is qualitatively estimated at 50 percent.

Results for Performance Standard 4
(No Class A noxious weeds, purple loosestrife, or paleyellow iris across the site):

Purple loosestrife was observed on-site and reported. Paleyellow iris was observed just off-site. No Class A noxious weeds observed at the time of monitoring.

Performance Standard 5
(Reed canarygrass not out-competing the planted native woody species):

No reed canarygrass observed at the time of monitoring.

Performance Standard 5
(80% survival of vegetative cuttings in the riparian area):

Survival is qualitatively estimated at 45 percent.
We welcome your questions or comments. Please contact me at 360/570-2579 or by e-mail at littaud@wsdot.wa.gov for questions about these mitigation sites.

Sincerely,

Doug Littauer
Wetlands Program
RESTORATION PLAN

UB Upland Buffer (1200 @ 3' o.c. spacing)
- Salal
- Evergreen Huckleberry
- Salmonberry
- Western Sword Fern

PSS Scrub Shrub (200 @ 3' o.c. spacing)
- Red Osier Dogwood
- Black Twinberry
- Douglas Spirea
- Pacific Ninebark

PEM Emergent (200 @ 18" o.c. spacing)
- 200 Slough Sedge

SR-4 Elochoman Culverts
Restoration Plan

Washington State Department of Transportation

Temporary Wetland Impacts - navigation area
Upland Buffer Establishment
Surveyed Wetland Boundaries
Rivers & Streams

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