March 30, 2019

Mr. Alan Peters  
Skamania County  
P.O. Box 1099  
Stevenson, 98648

RE: SR 14 Marble Road to Belle Center Safety Improvements (Cleveland Oak) Mitigation Site  
USACE NWP (23) NWS-2011-544

Dear Mr. Peters:

The Washington State Department of Transportation completed qualitative monitoring of the  
014 Cleveland Oak mitigation site on September 10, 2018, to address Year-5 (2019)  
performance standards. Monitoring activities included vegetation observations and photo  
documentation. This Year-4 report is being issued for compliance with the reporting  
requirements of the Critical Areas Permit – Skamania County Permit Number NSA-11-33.

<table>
<thead>
<tr>
<th>General Site Information</th>
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<tbody>
<tr>
<td><strong>USACE NWP 23 Number</strong></td>
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<tr>
<td><strong>Skamania County Permit Number</strong></td>
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<tr>
<td><strong>Mitigation Location</strong></td>
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<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>
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<td><strong>Year of Monitoring</strong></td>
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<tr>
<td><strong>Type of Impacts</strong></td>
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<td><strong>Area of Project Wetland Impact</strong></td>
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<tr>
<td><strong>Type of Mitigation</strong></td>
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1 The project impact and mitigation areas were referenced from the mitigation plan (WSDOT 2012).
2 Additional mitigation for impacts associated with this project is provided at the SR 14 Homestead Lake Mitigation Site, the SR 14 Marble Road NSA Mitigation Site (on-site restoration), and the Wind Mountain Oak Preservation Site. See the mitigation plan for details (WSDOT 2012).
Site development:

This site is generally developing well. Year 5 performance standard targets for woody density are exceeded. Cover of invasive species is low. Non-native grasses still dominate the oak savannah area. In October, nearly 10,000 native herbaceous plants were installed that will hopefully outcompete the non-native grasses.
Results for Performance Standard 1
(200 living native trees per acre in the woody species planting areas):

Density of living native trees in the oak woodland is estimated at 500 trees/acre. This exceeds the performance standard target.

Results for Performance Standard 2
(4,000 living native shrubs per acre in the woody species planting areas):

Density of living native shrubs in the oak woodland is estimated at 5,600 shrubs/acre. This exceeds the performance standard target.

Results for Performance Standard 3
(100 living Oregon white oak trees per acre in the Oak Savannah area):

Density of Oregon white oak trees in the Oak Savannah is estimated at 300 trees/acre (Photo 1). This exceeds the performance standard target.

Results for Performance Standard 4
(90% cover native herbaceous species in the Oak Savannah area):

Cover of native herbaceous species is estimated at 30 percent. This is below the performance standard target.

Performance Standard 5
(Less than 15% cover blackberry species and Class B noxious weeds across the site):

Cover of blackberry and Class B noxious weeds is estimated at one percent. This is below the performance standard threshold.

Performance Standard 6
(No Class A noxious weeds, Japanese knotweed, or purple loosestrife across the site):

No Class A noxious weeds, Japanese knotweed, or purple loosestrife observed.

Performance Standard 7
(Less than 15% cover non-native grasses and forbs in the Oak Savannah area):

Cover of non-native grasses is estimated at 95 percent in the savannah area. This is a Year 3 performance standard threshold that is still exceeded in Year 4. WSDOT is having discussions with the USFS regarding the application of this performance standard.

Photo 1 – Density in the Oak Savannah area
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
CLEVELAND OAK RESTORATION TYPES AND PLANTING PLAN

OAK WOODLAND ESTABLISHMENT - 6.4 ACRES
Oregon White Oak canopy (5' container, placed where staked)
Planting density 225 trees per acre.
Woody understory of Snowberry, Cascade Oregon Grape, Iden Plum,
Ocean Spray, and Serviceberry (7' spacing)
Understory planting density 4,000 stems per acre

OAK SAVANNAH ESTABLISHMENT - 5.70 ACRES
Native herbaceous understory of grasses and with oak stands
and individual oak specimens at a density of approximately 200
trees per acre (5' container, placed where staked)

Figure 10c. Cleveland oak woodland mitigation site concept