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1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Restoring SNIDCEL / Tod Inlet Trail Guide Prototype Template</title>
5   <meta charset="utf-8" />
6   <meta http-equiv="X-UA-Compatible" content="IE=edge">
7   <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">
8   <meta name="description" content="Restoring SNIDCEL Tod Inlet Trail Guide and Leaflet Map">
9   <meta name="keywords" content="Restoring, Restoration, SNIDCEL, SNIDCEL, Tod Inlet, Trail Guide, Leaflet Map">
10  <meta name="author" content="Wendy Anthony">
11
12  <link rel="stylesheet" href="https://unpkg.com/leaflet@1.2.0/dist/leaflet.css" />
13  <link rel="stylesheet" href="http://labs.easyblog.it/maps/leaflet-compass/src/leaflet-compass.css" />
14  <link rel="stylesheet" href="https://web.uvic.ca/~wanthony/geog490/Control.Minimap.css" />
15  <link rel="stylesheet" href="https://web.uvic.ca/~wanthony/geog490/mediaQuery-2.css" />
16  <link rel="stylesheet" href="http://leaflet.github.io/Leaflet.label/leaflet.label.css" />
17
18  <!-- code source: https://gist.github.com/d3noob/7845954 -->
19  <!-- Aboriginal font css code from http://www.firstvoices.com/portal/coastal2.css -->
20  <!-- DATA source: SNIDCEL-2017-09-10-Waypoints-all-1.xlsx -->
21  <style>
22    html, body, #map {height: 100%; font: .9em "Aboriginal Sans", "Aboriginal Serif", "Aboriginal Serif Unicode 6", "Lucida Grande",
23      "Lucida Sans Unicode", "Gentium", "Code2001";}
24    #map {position: absolute; top: 0; left: 0; right: 0; bottom: 0; font-size: 150%;}
25    body {padding: 0; margin: 0;}
26    h1 {font-size: 110%;}
27    p {font-size: 80%;}
28    /* map title code from:; http://leafletplayback.theoutpost.io/examples/example_0.html */
29    #titleDiv {z-index: 10000;position: fixed; left: 70px; color: red; text-align: center; font-size: 80%; padding: 4px;}
30    /* label code source https://gis.stackexchange.com/questions/59571/how-to-add-text-only-labels-on-leaflet-map-with-no-icon */
31    .my-label {position: absolute; /*width:200px;*/ font-size: 60%; background-color: #ffc59b; opacity: .5;}
32    /* popupScroll source https://gis.stackexchange.com/questions/199041/
33    how-do-i-set-the-width-and-height-of-a-popup-using-qgis2web-and-leaflet */
34    .leaflet-popup-content {max-width: 500px; max-height: 500px; overflow-y: scroll;} /* this is the line that lets you scroll
35    through multiple photos*/
36    .plantTable {font-size: 45%;}
37    table, th, td {font-size: 45%; border: 1px solid black; border-collapse: collapse; text-align: left; padding: 2px;}
38    tr:nth-child(even) {background-color: #dddddd;}
39  </style>
40 </head>
41 <body>
42   <div id="titleDiv">
43     <h1>Restoring SNIDCEL <br /> Tod Inlet Trail Guide Prototype</h1>
44     <span style="font-size: 90%">Wendy Anthony<br />webCartographer<br />2017-11-18</span>
45   </div>

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43
44 <div id="map"></div>
45
46 <script src="https://unpkg.com/leaflet@1.2.0/dist/leaflet.js"></script>
47 <script src="http://labs.easyblog.it/maps/leaflet-compass/src/leaflet-compass.js"></script>
48 <script src="https://web.uvic.ca/~wanthony/geog490/Control.Minimap.js"></script>
49 <!-- jQuery is required for this question alert-popup example. -->
50 <script src='https://code.jquery.com/jquery-1.11.0.min.js'></script>
51 <script src='http://leaflet.github.io/Leaflet.label/leaflet.label.js'></script><!-- "start here" label -->
52 <noscript>Sorry, your browser does not support JavaScript! To view map, please enable Javascript in Browser settings</
noscript>
53 <script>
54     var redIcon = L.icon({iconUrl:'location-pin-red-24.png'});
55     var yellowIcon = L.icon({iconUrl:'location-pin-yellow-24.png'});
56     var purpleIcon = L.icon({iconUrl:'location-pin-purple-24.png'});
57     var greenIcon = L.icon({iconUrl:'location-pin-green-24.png'});
58     var blackIcon = L.icon({iconUrl:'location-pin-black-24.png'});
59     var qmIcon = L.icon({iconUrl:'QuestionMark-32sh-FlatIcon.png'});
60
61 // note the last L.marker item must have the final comma removed, and add a semicolon
62     var builtStructure = new L.LayerGroup();
63 L.marker([48.559945737943,-123.455042503774], {icon: yellowIcon}).bindPopup('Gate to SNIDCEL (Place of the Blue grouse),
Tod Inlet, part of <a href="http://www.env.gov.bc.ca/bcparks/explore/parkpgs/gowlland_tod/" target="_blank">Tod-Gowlland
Provincial Park</a> since 1995, located off Wallace Drive - the trail drops 50m in elevation over 1.5km, in a leisurely
20-30 minute walk down the slope to the beach at Tod Inlet<i>[scroll down for more images]</i><br /><br />', {maxWidth: "auto", closeOnClick: true}).addTo(builtStructure), // WP534
64 L.marker([48.5590495448559,-123.46385163255], {icon: yellowIcon}).bindPopup('Stairs to bottom of Estuary <i>[scroll down
for more images]</i><br /><br /><br />', {maxWidth: "auto", closeOnClick: true}).addTo(builtStructure),
// WP666
65 L.marker([48.5594412311911,-123.455715654417], {icon: yellowIcon}).bindPopup('Junction down to the dam across Tod Creek,
owned & operated by Butchart Gardens to irrigate their gardens, and the <a href="http://www.timescolonist.com/news/
local/butchart-gardens-steps-up-for-fishway-project-1.2106490" target="_blank">newly built fish ladder</a>, completed
Nov 2015, restoring once again a pathway for coho salmon and cutthroat trout <i>[scroll down for more images]</i><br /><
img src="https://web.uvic.ca/~wanthony/geog490/img/Tod-Creek-Fishway-DSC08815-500.jpg" title="Tod Creek Fishway Sign"
alt="Tod Creek Fishway Sign" border="0" /><br />', {maxWidth: "auto", closeOnClick: true}).addTo(builtStructure), // WP536
66 L.marker([48.5613083839416,-123.469197107478], {icon: yellowIcon}).bindPopup('Bridge centred over dry stream bed, which is
blocked up at Butchart Gardens Fountain Pond').addTo(builtStructure); // WP412
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67
68   var plant = new L.LayerGroup();
69 L.marker([48.5602350812405,-123.463249644264], {icon: greenIcon}).bindPopup('Bigleaf maple forest opens up<br />', {maxWidth: "auto", closeOnClick: true}).addTo(plant), // WP483
70 L.marker([48.5607172921299,-123.466615229845], {icon: redIcon}).bindPopup("<strong>CMT – Western redcedar trees with bark
strips removed; cougar claw marks</strong> <img src='https://web.uvic.ca/~wanthony/geog490/img/CMT-DSC08246-500.jpg'
border='3' />", {maxWidth: "auto", closeOnClick: true}).addTo(plant), // WP403
71 L.marker([48.56087, -123.46743],{icon: redIcon}).bindPopup("<strong>Snoopy Tree – Big Leaf Maple – <i>Acer macrophyllum</i> –
ʃʔÁ,ÉłĆ</strong><img src='https://web.uvic.ca/~wanthony/geog490/img/SnoopyTree-DSC08918-500.jpg' border='0' />", {maxWidth: "
auto", closeOnClick: true}).addTo(plant);
72
73   var historic = new L.LayerGroup();
74 L.marker([48.56073, -123.46986], {icon: blackIcon}).bindPopup('Old Pylons from old Cement Factory Wharf are now topped by a
flourishing, restored population of Purple Martins nest boxes, one of the few successful local colonies, where they breed
after flying from South America.<br />'
, {maxWidth: "auto", closeOnClick: true}).addTo(historic),
75 L.marker([48.5595319233834,-123.463636720553], {icon: blackIcon}).bindPopup('Murdoch Mysteries had a photo shoot here October
2017, to be aired on CBC in December 2017').addTo(historic); // WP648
76
77   var sensing = new L.LayerGroup();
78 L.marker([48.5590849164873,-123.462972370907],{icon: purpleIcon}).bindPopup("<strong>Tod Creek Falls audio recorded 2017-10-20</
strong><img src='https://web.uvic.ca/~wanthony/geog490/img/TodCreek-Falls-DSC09541-500.jpg' title='Tod Creek Falls' alt='Tod
Creek Falls' border='0' /><br />Listen to Tod Creek: <br /> <audio controls><source src='https://web.uvic.ca/~wanthony/geog490
/img/TodCreek-LowerFalls-2017-10-20-fadein-MAH09542.mp3'></source></audio>", {maxWidth: "auto", closeOnClick: true}).addTo(
sensing),
79 L.marker([48.56062, -123.46914], {icon: purpleIcon}).bindPopup('Tod Inlet is tidal water ... check out the shoreline at
different tide heights! ... <a href="http://www.tides.gc.ca/eng/data/table/2017/wlev_sec/7284#s8" target="_blank">2017 Tide
Tables</a> ... (Finlayson Arm is the closest Fisheries & Ocean Canada Tide Station)').addTo(sensing);
80
81   var restorePoly = new L.LayerGroup();
82 L.polygon([ // Cement foundation restoration
83   [48.56047, -123.46476],[48.56038, -123.46489],[48.56029, -123.46494],[48.56026, -123.46506],[48.56031, -123.46519],[48.5604,
-123.46524],[48.56047, -123.46512],[48.56046, -123.465],
84   [48.56053, -123.46501],[48.56047, -123.46476] // repeat first coordinate to close polygon
85 ], {weight: 2, color: '#fe57a1'}).bindPopup("<b>Cement Foundation Restoration – Site 13</b><br />Cement foundations are left
from houses of the Cement Factory worker families. In March 2013 the site was full of invasive blackberry, now Red alder
trees <i>(Alnus rubra)</i> KÓLNĚłĆ are encouraged to grow to help fix nitrogen in the soil to assist later plantings<br /><i>[
scroll down for more images]</i><br /> <img src='http://seachangesociety.com/wp-content/uploads/2017/02/
SITE13.MARCH2013-small-510x382.jpg' alt='March 2013' border='0' /><br /><img src='https://web.uvic.ca/~wanthony/geog490/img/
Alder-restoration-DSC08886-500.jpg' border='0' /><br /><img src='https://web.uvic.ca/~wanthony/geog490/img/
Cement-Restoration-2014-09-21-P1080719-500.jpg' border='0' />", {maxWidth: "auto", closeOnClick: true}).addTo(restorePoly);
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87     var junction = new L.LayerGroup();
88 L.marker([48.5611363872885,-123.471267269924], {icon: purpleIcon}).bindPopup('Point - turn back').addTo(junction), // WP508
89 L.marker([48.560617128387,-123.465915592387], {icon: purpleIcon}).bindPopup('Junction @ road and large path').addTo(junction);
// WP520
90
91     var route = new L.LayerGroup(); // format route polyline with lat,lng
92     L.polyline([
93 [48.5599347576498,-123.45503931865],[48.5598298162221,-123.454914931207],[48.559966860339,-123.455156832933],[48.5598544590175,-
123.455002941191],[48.5598208475857,-123.455047784373],[48.5598260443657,-123.45510947518],[48.5596843902021,-123.455220870673
],[48.5596033371984,-123.455377528443],[48.5594987310469,-123.455474339425],[48.559430334717,-123.455575425177],[48
.5594311729073,-123.455635271966],[48.5594769380986,-123.455883041024],[48.5594130679965,-123.456076076254],[48.5593885928392,
-123.456259639933],[48.5593028459697,-123.45645468682],[48.5593375470489,-123.456654930487],[48.5593691468238,-123
.456825334578],[48.5593885928392,-123.456949973478],[48.5593481920659,-123.457142673432],[48.5593208670616,-123.457403518259],
[48.5592997446656,-123.457555565983],[48.5592626966536,-123.457733932882],[48.5592867527157,-123.458006177097],[48
.5592882614582,-123.45823273994],[48.5592184402048,-123.458389230072],[48.5592715814709,-123.458648063242],[48.5592872556298,-
123.458848390728],[48.5592682287096,-123.459040755406],[48.5592670552432,-123.459069170057],[48.5592681448906,-123
.459136560559] // numerous lat,long coordinates removed to save space for printing
94 ],
95     {
96         color: '#ec7014',
97         weight: 4,
98         opacity: .5,
99         dashArray: '10,7',
100         lineJoin: 'round'
101     }).addTo(route);
102 // map code with links to map tiles, attribution, basetile layers, map, baselayers, overlays
103 var osmLink = '<a href="http://openstreetmap.org">OpenStreetMap</a>';
104 var osmUrl = 'http://{s}.tile.openstreetmap.org/{z}/{x}/{y}.png',
105     osmAttrib = '&copy; ' + osmLink,
106     mbUrl = 'https://api.tiles.mapbox.com/v4/{id}/{z}/{x}/{y}.png?access_token=pk.eyJ1IjoibzJicGlja2luIiwiaSI6ImNpbXUyMzNl
dTAYNTF1cmtrZXdnbWZycDIifQ.JdYE50MBxDn1fdZtVFYXZw',
107     mbAttr = '<a href="http://creativecommons.org/licenses/by-sa/2.0/">CC-BY-SA</a>, ' + 'Imagery © <a href="http://
mapbox.com">Mapbox</a>';
108 var osmMap = L.tileLayer(osmUrl, {attribution: osmAttrib}),
109     satellite = L.tileLayer(mbUrl, {id: 'mapbox.satellite', attribution: mbAttr});
110 var map = L.map('map', {
111     layers: [satellite, sensing, restorePoly, plant, historic, builtStructure] // not including route layer makes it
112     untoggled by default
113     });
114     .setView([48.56048, -123.46384], 17);
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```
114 var baseLayers = {
115     "OpenStreet BaseMap": osmMap,
116     "Satellite BaseMap": satellite
117 };
118 var overlays = {
119     "Restoration Areas <img src='pinkPoly-20.png'>": restorePoly,
120     "Plants <img src='location-pin-green-16.png'>": plant,
121     "Sensing <img src='location-pin-purple-16.png'>": sensing,
122     "History <img src='location-pin-black-16.png'>": historic,
123     "Structures <img src='location-pin-yellow-16.png'>": builtStructure,
124     "Route": route
125 };
126 // add scale
127 var scale = L.control.scale()
128     scale.addTo(map);
129
130 // MiniMap Plugin needs a new variable name, though using same maptiles & variable - cannot use same layer object again
131 // code source https://github.com/Norkart/Leaflet-MiniMap
132 var osm2 = new L.TileLayer(osmUrl, {minZoom: 5, maxZoom: 13, attribution: osmAttrib });
133 var miniMap = new L.Control.MiniMap(osm2, { toggleDisplay: true }).addTo(map);
134
135 // label marker code from https://gis.stackexchange.com/questions/59571/
// how-to-add-text-only-labels-on-leaflet-map-with-no-icon
136 var marker = new L.marker([48.55989, -123.45535], { opacity: 0 }); //opacity may be set to zero
137 marker.bindTooltip("Start Here ... <br />Welcome to SNIDCEL", {permanent: true, className: "my-label", offset: [0, 0] });
138 marker.addTo(map);
139
140 // 'alert' programming tool used for opening another window to answer a question within the same browser window, uses
// jQuery
141 L.marker([48.56068,-123.46646], {icon: qmIcon}).bindPopup($('<a href="#" class="speciallink">Q. Do you see evidence of
// first nation resource use?<br /></a>').click(function() {
142     alert("A. Up ahead on the trail you will find Culturally Modified Trees (CMT), where the redcedar bark has been
// harvested by First Nation people for many traditional uses.");
143 })[0]).addTo(map);
144
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```
// SENĆOŦEN Native Plant species table
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```
L.marker([48.55962, -123.45676], {icon: qmIcon}).bindPopup('Can you identify any of these native plant species that grow here at SNIDŦEŁ?<br /><br /><table id="npt"><tr><th>Trees</th></tr><tr><th>Common</th><th>Latin</th><th>SENĆOŦEN</th></tr><tr><td>Bigleaf maple</td><td><i>Acer macrophyllum</i></td><td>ŦŦÁ, EŁĆ</td></tr><tr><td>Black cottonwood poplar</td><td><i>Populus balsamifera spp trichocarpa</i></td><td>ĆEU, N-EŁĆ or ĆEU, N-EŁP</td></tr> <tr><td>Douglas fir</td><td><i>Pseudotsuga menziesii</i></td><td>JSÁY</td></tr><tr><td>Red alder</td><td><i>Alnus rubra</i></td><td>SKŦOLNEŁĆ</td></tr><tr><td>Western redcedar</td><td><i>Thuja plicata</i></td><td>XPÁY-Tree XEXPÁ-Plank SLEWI-Inner Bark JELÁ-Bark Outer Bark XPÁY, ÁSES-Branches SŦESTÁSES-Withes for Rope XÆEXTEN-Withe Rope ŦEMLEX-Roots</td></tr><tr><th>Shrubs</th></tr><tr><td>Nootka rose</td><td><i>Rosa nutkana</i></td><td>KELK-Flowers KILEK-Fruit/Hips KELKE IŁĆ-Bush</td></tr><tr><td>Salmonberry</td><td><i>Rubus spectabilis</i></td><td>ELILE-Berries ELILE IŁĆ-Bush ŦÁ, ŦKI-Edible Sprouts</td></tr><tr><th>Herbs</th></tr><tr><td>Stinging nettle</td><td><i>Urtica dioica</i></td><td>ŦEX, ŦEX or ŦEX, TEN</td></tr><tr><th>Ferns</th></tr><tr><td>Swordfern</td><td><i>Polystichum munitum</i></td><td>SŦXÁLEM</td></tr></table><br />SENĆOŦEN Plant Name Reference: Turner, Nancy. Hebda, Richard J. (2012). <i><b>Saanch Ethnobotany</b></i>. Victoria, BC: Royal British Columbia Museum.', {className: "plantTable"}).addTo(map);
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/* popup window displays lat, lng after clicking a point on the map ... just remove the '/' from the beginning of the line, save and reupload file to internet; add back again when finished using, resave and reupload */
```

```
// var popup = L.popup(); function onMapClick(e) {popup.setLatLng(e.latlng).setContent("You clicked the map at " + e.latlng.toString()).openOn(map);}map.on('click', onMapClick);
```

```
// adds all the layers to the legend menu control
```

```
L.control.layers(baseLayers, overlays, {position: 'topleft', collapsed: true}).addTo(map);
```

```
</script>
```

```
</body>
```

```
</html>
```