

Qualified Professional Checklist for Foreshore Works - Okanagan LLP

Project Name: **New Dock at #2 12877 Kidston Road, Coldstream, BC**

Date: March 27, 2016

Project Summary: Construct 29 m long new dock with 18 untreated wood piles and untreated wood timbers and decking.

NOTE: The items in this checklist apply to the site of works and the surrounding area.

Have you ...		Yes	No	N/A	Explain
1.0 SITE SURVEY					
1.1 reviewed existing fish, emergent vegetation, SAR & habitat mapping data, including:	a) Conservation Data Centre (CDC)?	X			12 mapped occurrences of 11 SAR and 1 ecosystem at risk within 3 km radius ¹ ; as well as 11 masked occurrences; unmasked occurrences are distant from site or otherwise not of concern; masked occurrences unknown but not likely to be affected by dock, however should be investigated if there is any future riparian disturbance (e.g., by trail or stairs)
	b) local MOE (Ecosystem Staff)?		X		used OLLP and other online resources
	c) Foreshore Inventory Mapping?	X			OLLP no colour zone, FIM ² Segment 76 on Mapsheet 14 – gravel/single family; high impact rating (>40%); moderate habitat index rating; no staging/migration/salmon spawning stream/mussels; moderate juvenile rearing; no kokanee spawning zones
	d) Sensitive Ecosystem Inventory?	X			SEI ³ Polygon 9986 - 60% Coniferous Woodland, 40% Sparsely Vegetated Shrubby Rock Outcrop

¹ BC Conservation Data Centre: CDC iMap (web application). 2015. Victoria, BC, Canada. Available <http://maps.gov.bc.ca/ess/sv/cdc/> Accessed March 14, 2016.

² J. Schleppe and A. Corman, Kalamalka Lake Aquatic Habitat Index, 2012. Prepared by Ecoscape Environmental Consultants Ltd for Okanagan Collaborative Conservation Program. November.

³ Iverson, K., Sensitive Ecosystems Inventory: Coldstream-Vernon, 2007. Prepared by Iverson & MacKenzie Biological Consulting Ltd. for multiple agency partners. June.

Have you ...		Yes	No	N/A	Explain
1.2	conducted any inventories to confirm presence/absence of fish, emergent vegetation and SAR or their habitats on site?	X			site visit conducted Mar 4/16; no emergent vegetation or SAR observed; no mussels or shells; property is within IDFxh1a (grassland phase of Interior Douglas-fir very dry hot BEC zone); intact riparian vegetation (Photo 1) has Ponderosa pine and Douglas-fir to 50 cm, and typical riparian species including rose, red-osier dogwood, hawthorn
1.3	confirmed environmentally sensitive features or ecosystems on the site? <i>(only if the upland is within an environmental development permit area)</i>	X			SEI Coniferous Woodland and shrubby sparsely vegetated
1.4	evaluated and described local soil and foreshore substrate?	X			substrate was gravel and cobble over sand, low shore spawning potential (Photo 2)
1.5	assessed potential changes to local shoreline and stream mouth accretion/erosion dynamics? <i>(only required for marina, infill and erosion protection works)</i>			X	not a marina, infill, or erosion protection works
2.0 SITE DESIGN & RECOMMENDATIONS					
2.1	applied DFO's principal of 'no net loss'?	a) Redesign?		X	none required (figure attached)
		b) Relocate?		X	design will not result in loss of fish habitat
		c) Mitigation?	X		follow BMPs for working in and around water
		d) Compensation?		X	not required
2.2	followed the Habitat Officer's Terms and Conditions?	X			depth ≥ 0.8 m below low water mark before dock widens and at boat lift location
2.3	followed all BMPs? If not, have you described in the EIA alternatives to BMPs that are being used (pg #)	X			BMPs followed
2.4	included measures to avoid or minimize impacts to aquatic and riparian habitat? <i>(in relation to existing or potential fish and SAR use)</i>	X			follow BMPs; all construction access from water
2.5	included measures to avoid or minimize impacts to any fish, emergent vegetation or SAR identified on the site?	X			follow BMPs
2.6	applied the least risk timing windows?	X			June 1 to September 30 due to potential shore spawning
2.7	minimized the footprint of the works?	X			18 wood piles
2.8	considered one common lakeshore access on multiple lot sites?			X	site is single lot
2.9	maintained a 50 m lakeshore frontage between moorage structures on single lots?		X		docks on adjacent lots north and south ~20 m away (Photo 5, Photo 6)

Have you ...	Yes	No	N/A	Explain
2.10 minimized access related disturbance from machinery/equipment?	X			access by boat or barge
2.11 included measures to ensure no erosion or sediment releases result from proposed works?		X		minimal substrate disturbance will result from construction
3.0 MONITORING & REPORTING				
3.1 included provisions to ensure protective measures & BMPs are followed?	X			full-time monitoring at startup
3.2 included provisions for monitoring to ensure the completed works function as expected over time?		X		not deemed necessary
3.3 provided recommendations for any impacts from future maintenance?		X		none anticipated
3.4 considered long term water quality issues?		X		none anticipated
3.5 reported new SAR occurrences to MOE Ecosystem Staff and CDC using CDC Field Observation Forms			X	no new SAR occurrences
3.6 reported null data for rare plant species to MOE Ecosystem Staff (Osoyoos Lake Only)			X	not Osoyoos Lake
4.0 LEGISLATIVE REQUIREMENTS				
4.1 avoided a HADD or serious harm?	X			low risk activity
4.2 received a letter of advice or authorization from DFO if the works do cause a HADD or serious harm?			X	no HADD or serious harm
4.3 conducted a RAR assessment for upland works? If yes, list RAR assessment # and indicate if the RAR assessment included provisions for foreshore access		X		no foreshore access required for dock construction; no RAR assessment requested for possible stairs or trail to dock

This development activity is in the following zone: Black Red Yellow **No Colour**

The development activity risk is Very High High Moderate **Low**

I confirm that all information provided in this checklist is to the best of my professional knowledge true and complete.

Gerry Naito

Original signature of Qualified Professional

__Gerry Naito__

Printed Name of Qualified Professional

RPBio #708 (BC College of Applied Biology)
Professional Association #

__March 27__, 2016

Date

Attachments: Photographs (2 pages × 3 photos)
 Figure 1 – Plan and Section Views of Proposed New Dock

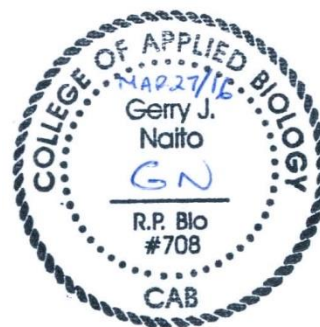




Photo 1.
Looking toward shore showing
existing riparian vegetation.
Mar 4/16



Photo 2.
Typical substrate of gravel and
cobble on bed of sand.
Mar 4/16



Photo 3.
Looking toward shore (approx.
east) along proposed dock
alignment.
Mar 4/16



Photo 4.

Looking out from shore (approx. west) in vicinity of proposed dock alignment.

Mar 4/16



Photo 5.

Shoreline development looking north.

Mar 4/16



Photo 6.

Shoreline development looking south.

Mar 4/16

FIGURE 1. PLAN AND SECTION VIEWS OF PROPOSED NEW DOCK AT #2 12877 KIDSTON ROAD, COLDSTREAM, BC

