# Public Notice

# Trial Islands Lightstation – Transformer Replacement

# Public Comments Invited

**June 22, 2023** - The Fisheries and Oceans Canada and Environment and Climate Change Canada must decide whether the transformer replacement project, located at Trial Islands Lightstation, off the south coast of Vancouver Island, BC, is likely to cause significant adverse environmental effects.

To help inform this decision, Fisheries and Oceans Canada and Environment and Climate Change Canada are inviting comments from the public on the project and its potential effects on the environment. All comments received will be considered public. For more information, individuals should consult the [Privacy Notice](https://www.ceaa-acee.gc.ca/050/evaluations/Protection?culture=en-CA) on the Registry website.

Written comments must be submitted by **July 22, 2023** to:

# Emily Sapsford, Project Engineer

# Fisheries and Oceans Canada, Real Property Technical Services, Pacific Region

# Email: Emily.Sapsford@dfo-mpo.gc.ca

# Tel: (250) 217-0323

# 25 Huron Street

# Victoria, BC

# V8V 4Z9

# Eliza Gray

# Fisheries and Oceans Canada, Real Property Technical Services, Pacific Region

# Email: [Eliza.Gray@dfo-mpo.gc.ca](mailto:Eliza.Gray@dfo-mpo.gc.ca)

# Tel: (250) 634-0574

# 25 Huron Street

# Victoria, BC

V8V 4Z9

# Assessment Summary

# The existing BC Hydro transformer has reached the end of its serviceable life and requires replacement. The brick and cement structure containing the existing transformer, and the concrete pad it rests on, will be broken down and the rubble will be placed in containment bags in a designated laydown area, for subsequent removal by helicopter. Machinery used in the project includes hand tools and portable drills. Waste materials will be contained within bulk bags in a laydown area adjacent to site and removed by helicopter (long line). New supplies will be brought in by helicopter (long line) and either placed in the laydown area (construction materials) or placed in situ (transformer). Once the old doghouse and pad are moved, the primary duct bank will be cut back to the first supporting concrete pier, removed and reformed for replacement. Three 4 or 5 inch conduits will be routed to the transformer pad window location under the new precast concrete pad. A new precast concrete pad will be placed bedding aggregate, within the footprint of the pad currently supporting the doghouse. A new replacement transformer will be set on the precast pad. A drain rock frame will be placed around the new pad, extending 300mm from the footprint of the existing pad on all sides. A grounding counterpoise will be buried 300mm below the bedding aggregate; a portable drill will be used to bore four 3 m deep ground rod holes into the bedrock, about 90 cm from the concrete pad which will be fill with a ground rod connected to the grounding counterpoise together with natural conductive material. In addition, four 1 m deep fence post holes will be drilled into the bedrock, about 1 m from the concrete pad and grouted into place. A non-conductive removable vinyl fence will be attached to the posts to mitigate electrical step-and-touch hazards. Personnel, small hand tools, and light material may be brought to the Lightstation by boat and carried to the project work area by wheelbarrow, using existing paths.

# Apart from drilling the fence-post holes into bedrock, no ground disturbance is expected with the project.

# Helicopter slinging and boat support will be used to mobilize and demobilize equipment.

# Project Locations

Trial Islands Lightstation is located at Staines Point on the southern end of the southernmost island of the Trial Islands group. The Lightstation is located approximately 1 km south of the Municipality of Oak Bay, east of Victoria, B.C., and 500 m south of McNeill Bay, B.C. The site is surrounded by the Trial Islands Ecological Reserve and is within the South Coast area of the DFO-Pacific.

Access by sea and air. Helicopter landing on the site is limited due to the surrounding ecological reserve.

Latitude: 48.3953

Longitude: -123.3050