

1 Q. **Reference: Application**

2 Please provide a summary of all laboratory testing conducted by Hydro in the 2025 Capital
3 Budget Application to verify the need for asset replacement.

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6 A. Please refer to Table 1 for a listing of the laboratory testing completed in relation to certain
7 investments included in Newfoundland and Labrador Hydro’s 2025 Capital Budget Application.

Table 1: Laboratory Testing for Select Investments

Test Completed	Test Type	Results	Proposed Investment
PCBs ¹ in Oil	EPA 8082A ²	64ppm	Bay d’Espoir SST2: oil replacement
Oil Quality Analysis	ASTM D 924-15 ³ ASTM D 1533-12 ⁴	ASTM D 924-15: 5.18% ASTM D 1533-20: 8ppm	Grand Falls Converter T1: oil refurbishment, hot oil dryout
Oil Quality Analysis	ASTM D 1533-12	ASTM D 1533-20: 10ppm	Happy Valley T2: install online oil dehydrator
Oil Quality Analysis	ASTM D 1533-12	ASTM D 1533-20: 10ppm	Massey Drive T1: install online oil dehydrator
TJ H2b ⁵ TASA ⁶	TJ H2b	TASA Assessment = 3	Quartzite 2 T1: refurbish tap changer

¹ Polychlorinated biphenyl (“PCB”).

² U.S. Environmental Protection Agency. (2007). SW-846 Test Method 8082A, Polychlorinated Biphenyls (PCBs) by Gas Chromatography (2007 ed.).

³ ASTM International. (2015). ASTM Standard D924-15, Standard Test Method for Dissipation Factor (or Power Factor) and Relative Permittivity (Dielectric Constant) of Electrical Insulating Liquids (2015 ed.).

⁴ ASTM International. (2012). ASTM Standard D1533-12, Standard Test Method for Water in Insulating Liquids by Coulometric Karl Fischer Titration (2012 ed.).

⁵ TJ|H2b Analytical Services (“TJ|H2b”).

⁶ Tap Changer Activity Signature Analysis (“TASA”).