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| **Supplementary Table 2: Modeling parameter** |
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|  | Mantle Wedge beneath Colville Ridge1 | Subducting Sediment1 | Three Kings Ridge shoshonitic lava2 |
|  |  |  |  |
| Sr (ppm)  | 12 | 300 | 768 |
|  87Sr/86Sr  | 0.70260 | 0.709 | 0.70457 |
|  |  |  |  |
| Nd (ppm) | 1.2 | 21.6 | 20.0 |
| 143Nd/144Nd  | 0.51311 | 0.5125 | 0.51276 |
|  |  |  |  |
| Pb (ppm) | 0.2 | 10.0 | 11.0 |
| 206Pb/204Pb  | 18.45 | 18.80 | 18.84 |
| 207Pb/204Pb  | 15.50 | 15.64 | 15.61 |
| 208Pb/204Pb  | 38.17  | 38.70  | 38.70 |
|  |  |  |  |
| Th (ppm) | 0.01 | 8.0 | 18.0 |
| Zr (ppm) | 15 | 127 | 187 |
| 1Depleted mantle wedge endmember and subducting sediment compositions are similar to those presented in Todd et al. (2011) and 2Three Kings Ridge data are from Mortimer et al. (1998). |
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