

2021 Environmental Dashboard: Peterborough (Beryllium)

At BWXT Nuclear Energy Canada's (BWXT NEC) Peterborough facility, air and water emissions are measured for the presence of beryllium. Beryllium is used as part of the fuel bundle manufacturing process. Airborne and liquid wastes discharged from a fuel fabrication facility like BWXT NEC are regulated by concentration limits. Action levels and our own internal limits are set at just a fraction of the regulatory limits, to keep emissions as low as possible. To learn more on how we conduct sampling, visit www.bwxt.com/bwxt-nec/environmental-monitoring or refer to our Annual Compliance Reports which can be found at www.bwxt.com/bwxt-nec/safety/our-compliance-record.

BWXT NEC has developed this dashboard to provide the public with more detail on our emissions. This document will be updated throughout the year. If you have questions about the data, please contact us at questions@bwxt.com or 1.855.696.9588.

| Water | | | | Stack (Air) | | | |
|-------------------------------------|----------------------|------------------------------|------------------------------------|-------------------------------------|-------------------------------|-------------------------------|------------------------------------|
| Status: no action level exceedances | | | | Status: no action level exceedances | | | |
| Week | Concentration (mg/L) | Licence Release Limit (mg/L) | Number of Action Level Exceedances | Week | Average Concentration (µg/m³) | Licence Release Limit (µg/m³) | Number of Action Level Exceedances |
| 1 | 0.0001 | 26 | 0 | 1 | 0.0001 | 2.6 | 0 |
| 2 | | 26 | | 2 | 0.0001 | 2.6 | 0 |
| 3 | | 26 | | 3 | 0.0001 | 2.6 | 0 |
| 4 | 0.0004 | 26 | 0 | 4 | 0.0001 | 2.6 | 0 |
| 5 | | 26 | | 5 | 0.0004 | 2.6 | 0 |
| 6 | 0.0001 | 26 | 0 | 6 | 0.0001 | 2.6 | 0 |
| 7 | | 26 | | 7 | 0.0001 | 2.6 | 0 |
| 8 | | 26 | | 8 | 0.0002 | 2.6 | 0 |
| 9 | | 26 | | 9 | 0.0003 | 2.6 | 0 |
| 10 | 0.0013 | 26 | 0 | 10 | 0.0002 | 2.6 | 0 |
| 11 | 0.0031 | 26 | 0 | 11 | 0.0003 | 2.6 | 0 |
| 12 | | 26 | | 12 | 0.0002 | 2.6 | 0 |
| 13 | | 26 | | 13 | 0.0002 | 2.6 | 0 |
| 14 | 0.0019 | 26 | 0 | 14 | 0.0003 | 2.6 | 0 |
| 15 | | 26 | | 15 | 0.0000 | 2.6 | 0 |
| 16 | | 26 | | 16 | 0.0007 | 2.6 | 0 |
| 17 | 0.0010 | 26 | 0 | 17 | 0.0007 | 2.6 | 0 |
| 18 | | 26 | | 18 | 0.0004 | 2.6 | 0 |
| 19 | 0.0009 | 26 | 0 | 19 | 0.0004 | 2.6 | 0 |
| 20 | | 26 | | 20 | 0.0007 | 2.6 | 0 |
| 21 | | 26 | | 21 | 0.0002 | 2.6 | 0 |
| 22 | | 26 | | 22 | 0.0004 | 2.6 | 0 |
| 23 | 0.0029 | 26 | 0 | 23 | 0.0010 | 2.6 | 0 |
| 24 | | 26 | | 24 | 0.0003 | 2.6 | 0 |
| 25 | 0.0004 | 26 | 0 | 25 | 0.0003 | 2.6 | 0 |
| 26 | | 26 | | 26 | 0.0003 | 2.6 | 0 |
| 27 | 0.0003 | 26 | 0 | 27 | 0.0002 | 2.6 | 0 |
| 28 | | 26 | | 28 | 0.0003 | 2.6 | 0 |
| 29 | | 26 | | 29 | 0.0002 | 2.6 | 0 |
| 30 | | 26 | | 30 | | 2.6 | |
| 31 | | 26 | | 31 | | 2.6 | |
| 32 | 0.0017 | 26 | 0 | 32 | 0.0004 | 2.6 | 0 |
| 33 | | 26 | | 33 | 0.0002 | 2.6 | 0 |
| 34 | | 26 | | 34 | 0.0009 | 2.6 | 0 |
| 35 | | 26 | | 35 | 0.0004 | 2.6 | 0 |
| 36 | 0.0005 | 26 | 0 | 36 | 0.0004 | 2.6 | 0 |
| 37 | | 26 | | 37 | 0.0006 | 2.6 | 0 |
| 38 | | 26 | | 38 | 0.0003 | 2.6 | 0 |
| 39 | 0.0002 | 26 | 0 | 39 | 0.0001 | 2.6 | 0 |
| 40 | | 26 | | 40 | 0.0005 | 2.6 | 0 |
| 41 | | 26 | | 41 | 0.0003 | 2.6 | 0 |
| 42 | | 26 | | 42 | 0.0001 | 2.6 | 0 |
| 43 | | 26 | | 43 | | 2.6 | |
| 44 | | 26 | | 44 | | 2.6 | |
| 45 | | 26 | | 45 | | 2.6 | |
| 46 | | 26 | | 46 | | 2.6 | |
| 47 | | 26 | | 47 | | 2.6 | |
| 48 | | 26 | | 48 | | 2.6 | |
| 49 | | 26 | | 49 | | 2.6 | |
| 50 | | 26 | | 50 | | 2.6 | |
| 51 | | 26 | | 51 | | 2.6 | |
| 52 | | 26 | | 52 | | 2.6 | |

Notes:

- Week 1 started on January 4, 2021
- Water data is infrequent because water is sampled approximately once per month.
- Week 30-31 Stack (Air) data not available because of shut down (the sample indicated in Week 32 is the sample taken during the three week shutdown).