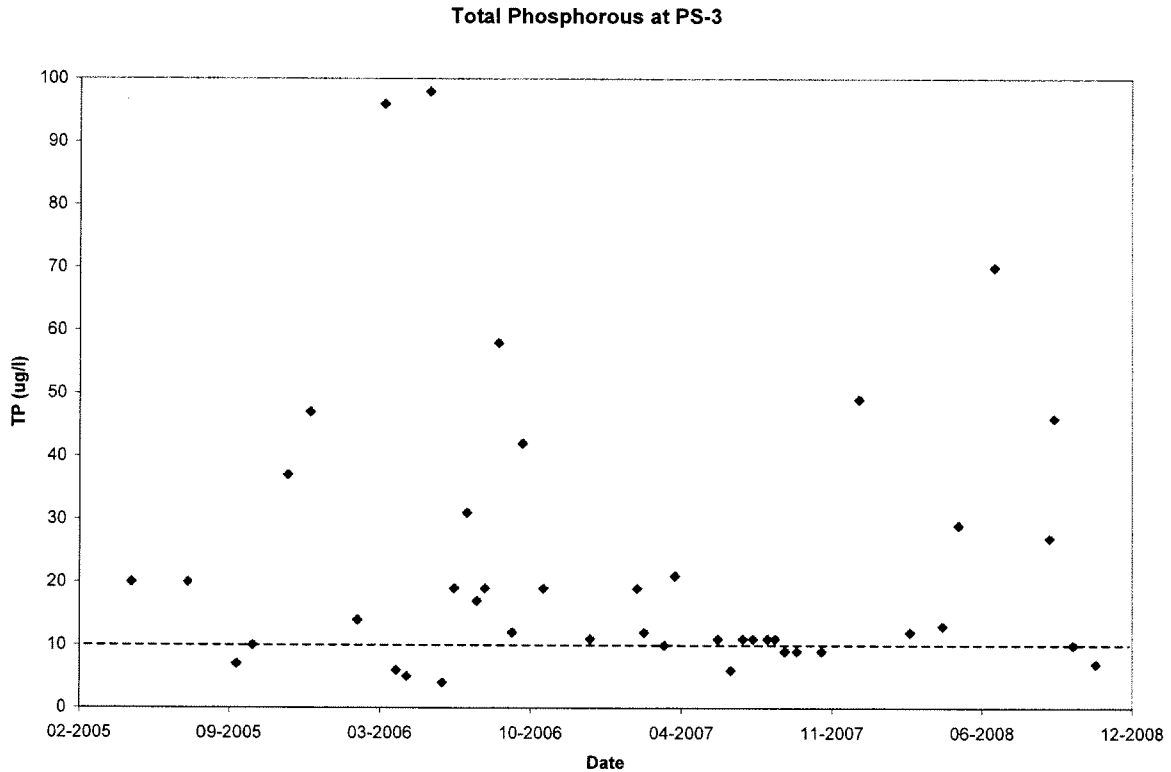


## Appendix C

### Total Phosphorous in IWL Inflow Waters

The following chart shows the concentrations of TP in IWL MacIntyre Creek inflow waters since April 2005<sup>10</sup>.



In 81% of the samplings between 2005 and 2008 (38 of 47), the inflow waters were 10 ug/l or more (above the dotted line in the chart). The annual averages from 2005 to date are also above 10 ug/l (2005 = 23.5, 2006 = 59, 2007 = 14, 2008 = 745). Given that algal growth is maximized at approximately 10ug/l, it is safe to extrapolate that the algae blooms downstream would exist regardless of IWL's presence. The geology above IWL is providing the TP necessary to maximize algal growth.

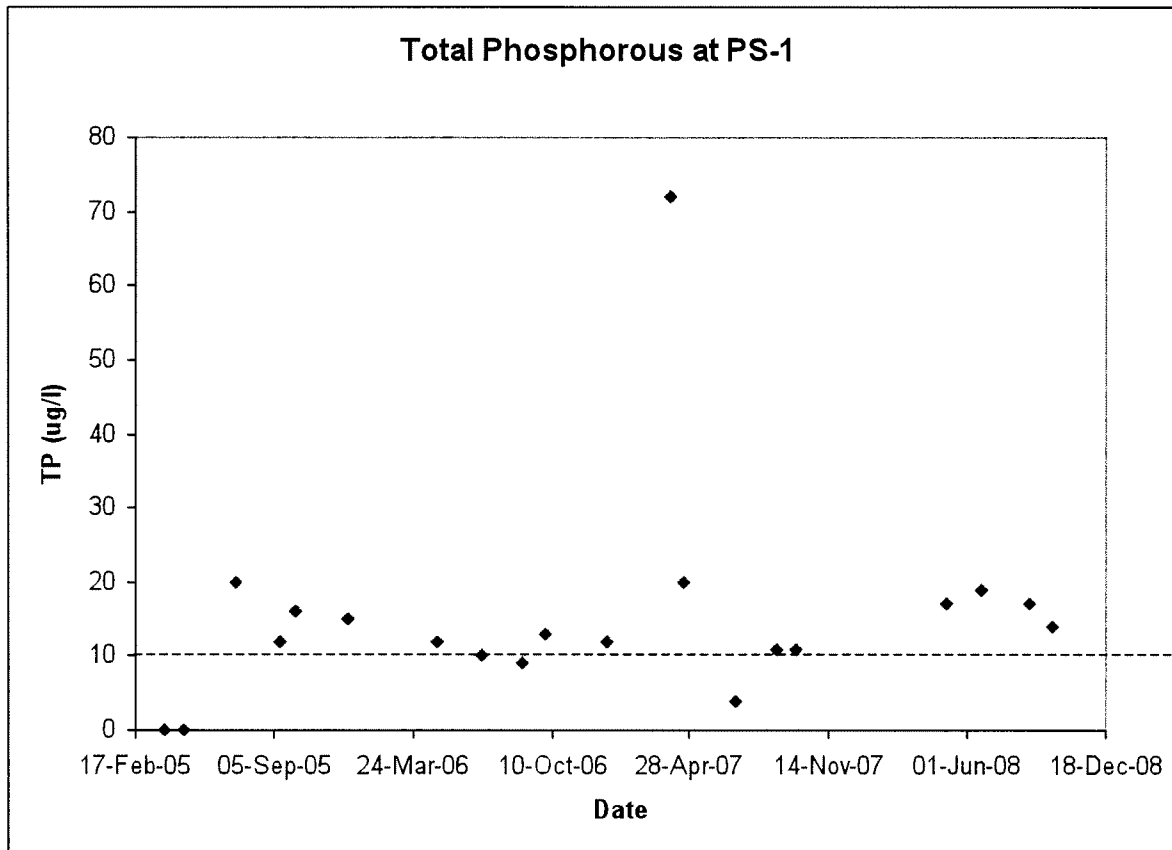
<sup>10</sup> Please note that four data points are not represented on this chart, as they were significantly above scale maximum of 100 ug/l (they were 242, 315, 735, and 6500 ug/l). The chart would have been skewed so that the other points would not be legible.

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MS08-275

The same assertion can be made on the Porter Creek system:



In 80% of the samplings (17 of 21), the inflow waters were 10 ug/l or more (above the dotted line in the chart)<sup>11</sup>. Therefore, algae blooms downstream would likely exist regardless of IWL's presence.

<sup>11</sup> Please note that one data point is not represented on this chart, as it was significantly above the scale maximum (2190 ug/l). The chart would have been skewed so that the other points would not be legible.

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