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Footprints

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Whitman-Hanson Regional High School

Rivernet

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Our Mission

- Our mission, as the Whitman-Hanson Rivernet club is to gain more knowledge about how the new Whitman-Hanson High School building has affected the surrounding environment.



Footprints



The Question:

- Much like the footprint of the deer, what kind of footprints have we left? Are we damaging the environment? Are we helping to better buffer the pollutants from escaping into the environment?





W

Shawmut Reservoir

ST

Whitman-Hanson
Regional High Sch

27

Ridder
Country Club



600 Franklin St, Hanson, MA 02382

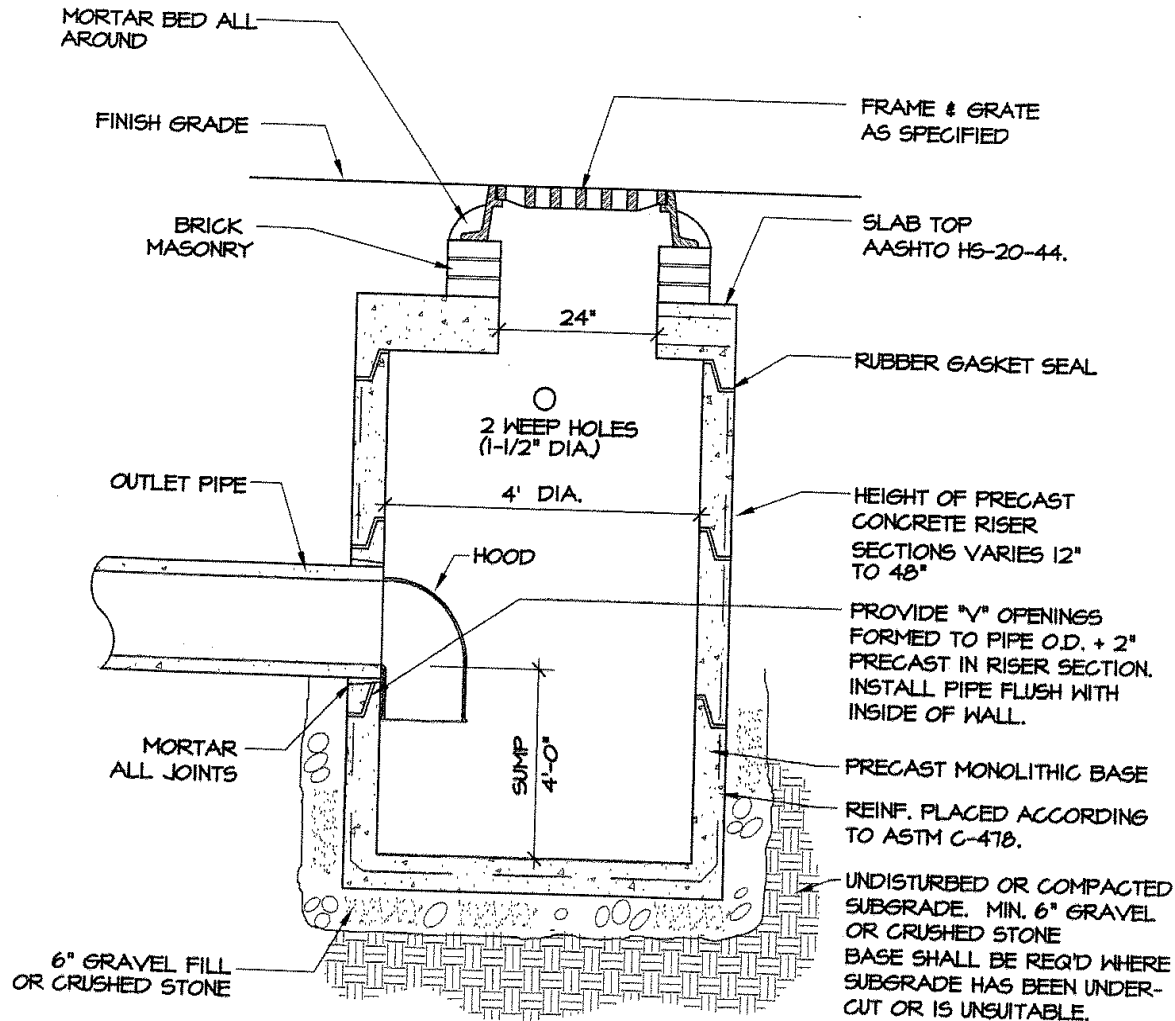






NOTES:

1. CATCH BASIN TO BE CONSTRUCTED FOR AASHTO HS-20-44 LOADING.
2. TWO WEEP HOLE OPENINGS TO BE PRECAST INTO RISER SECTION (SEE SPECS.).
3. FRAME AND GRATE MODEL NUMBERS MAY VARY BETWEEN PAVED AND NON-PAVED AREAS - SEE SPEC
4. INSTALL CATCH BASIN SO THAT HOOD IS NOT LOCATED DIRECTLY BELOW INLET OPENING.
5. WHEN USING BRICK TO ADJUST FRAME AND COVER TO GRADE, USE TWO BRICK COURSES MINIMUM AND FOUR COURSES MAXIMUM.



CATCH BASIN WITH HOOD
SCALE: N.T.S.







Outflow

Our Hypothesis

The out flowing water should be a better quality than within the detention pond because the cattails will filter the water naturally.



Problems encountered

- Water quality issues
- Dirt bikes and quads driving through wetlands
- Trash
- Pollution from parking lots
- Deer eating blueberry bushes

















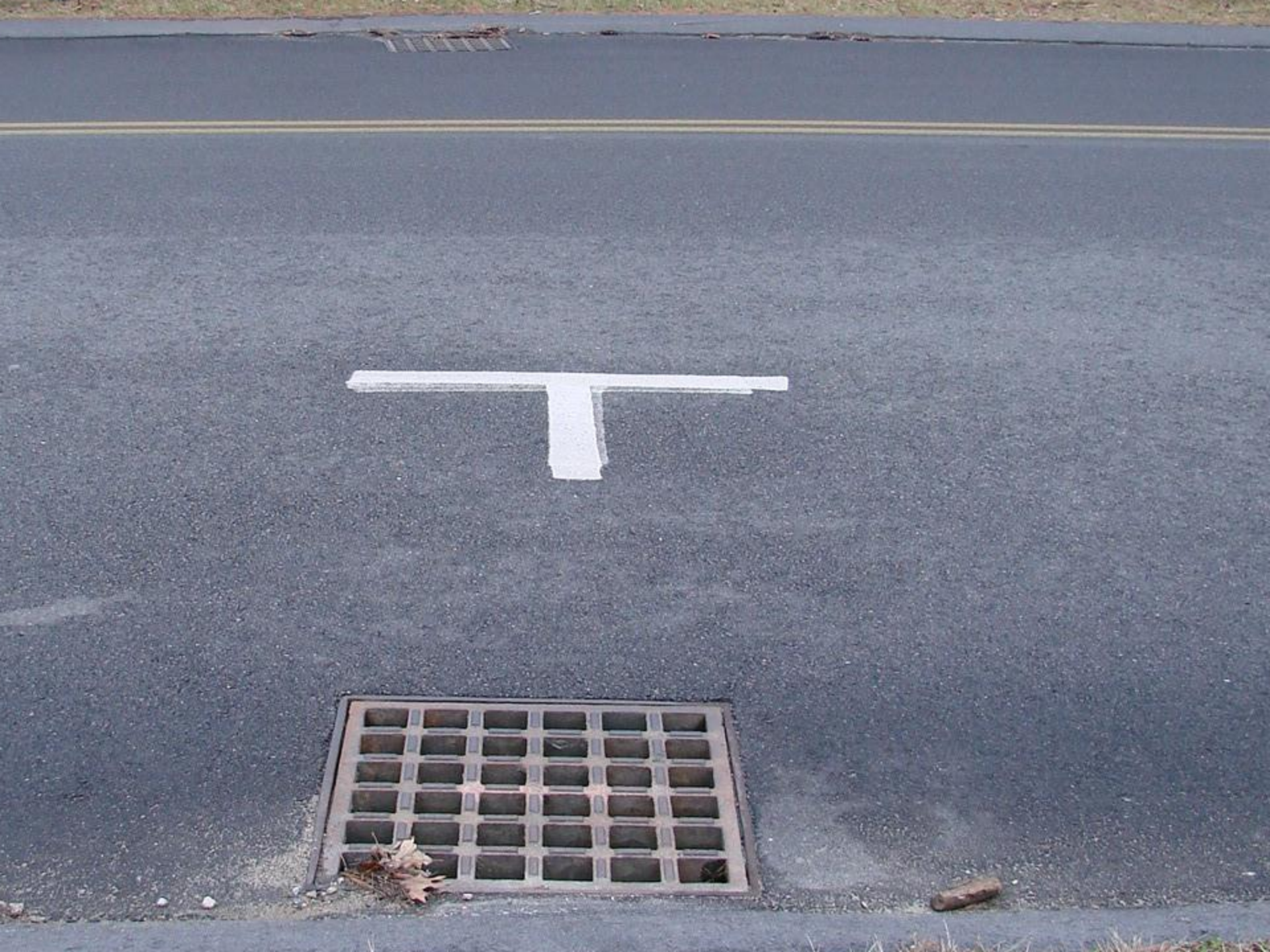
















Whitman-Hanson
Regional High Sch

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Ridder
Country Club

Shawmut Reservoir

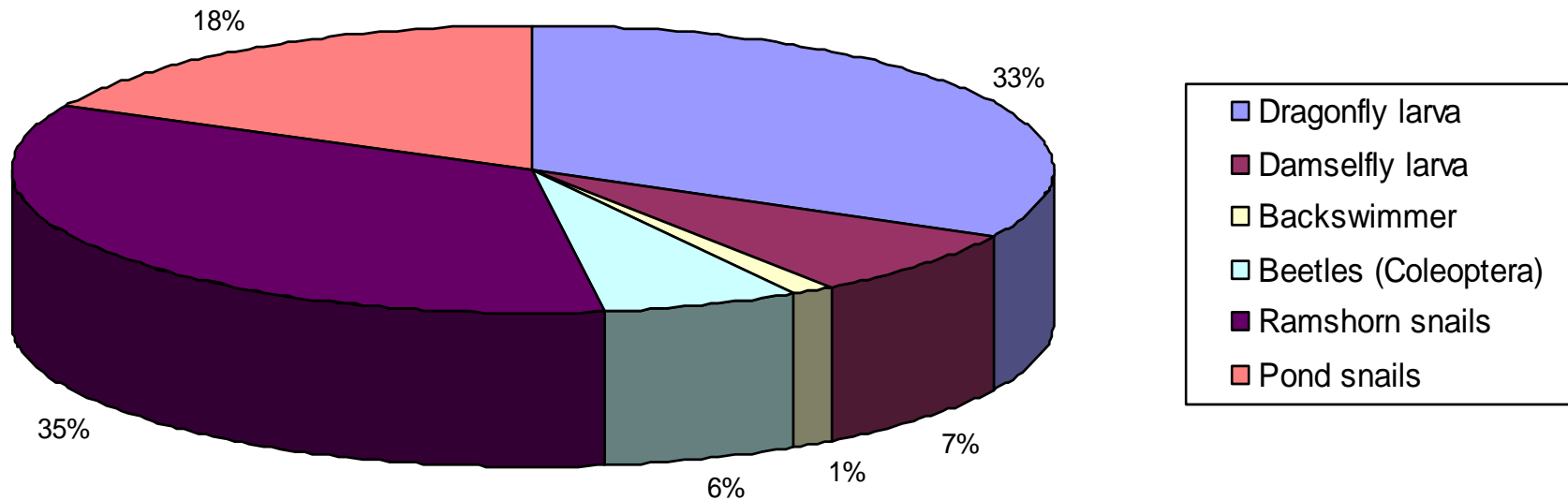




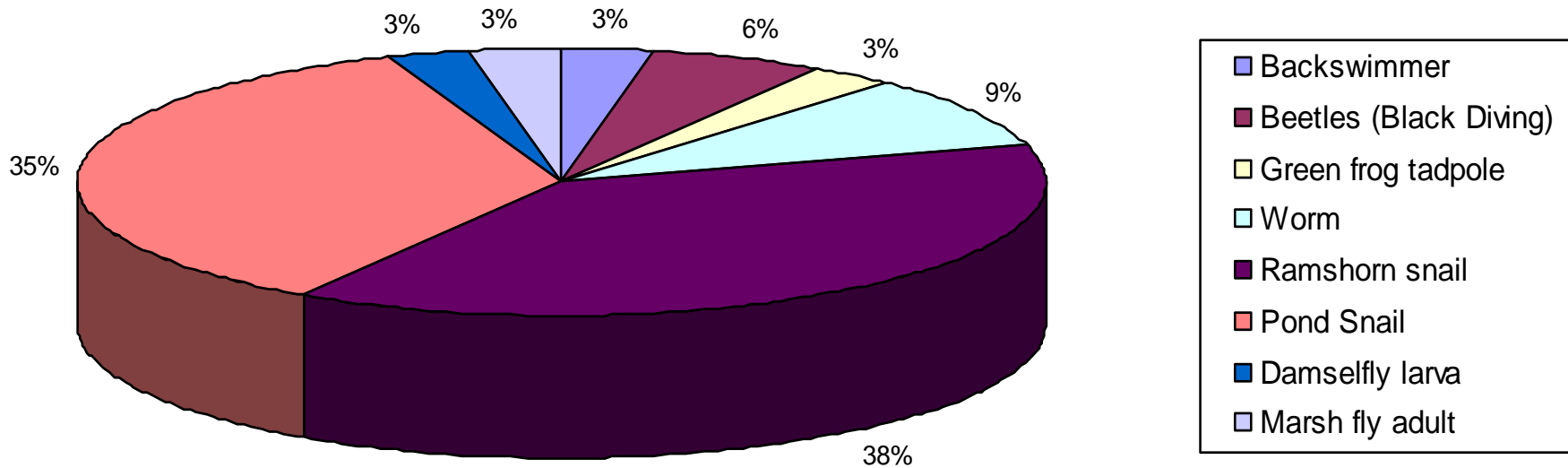




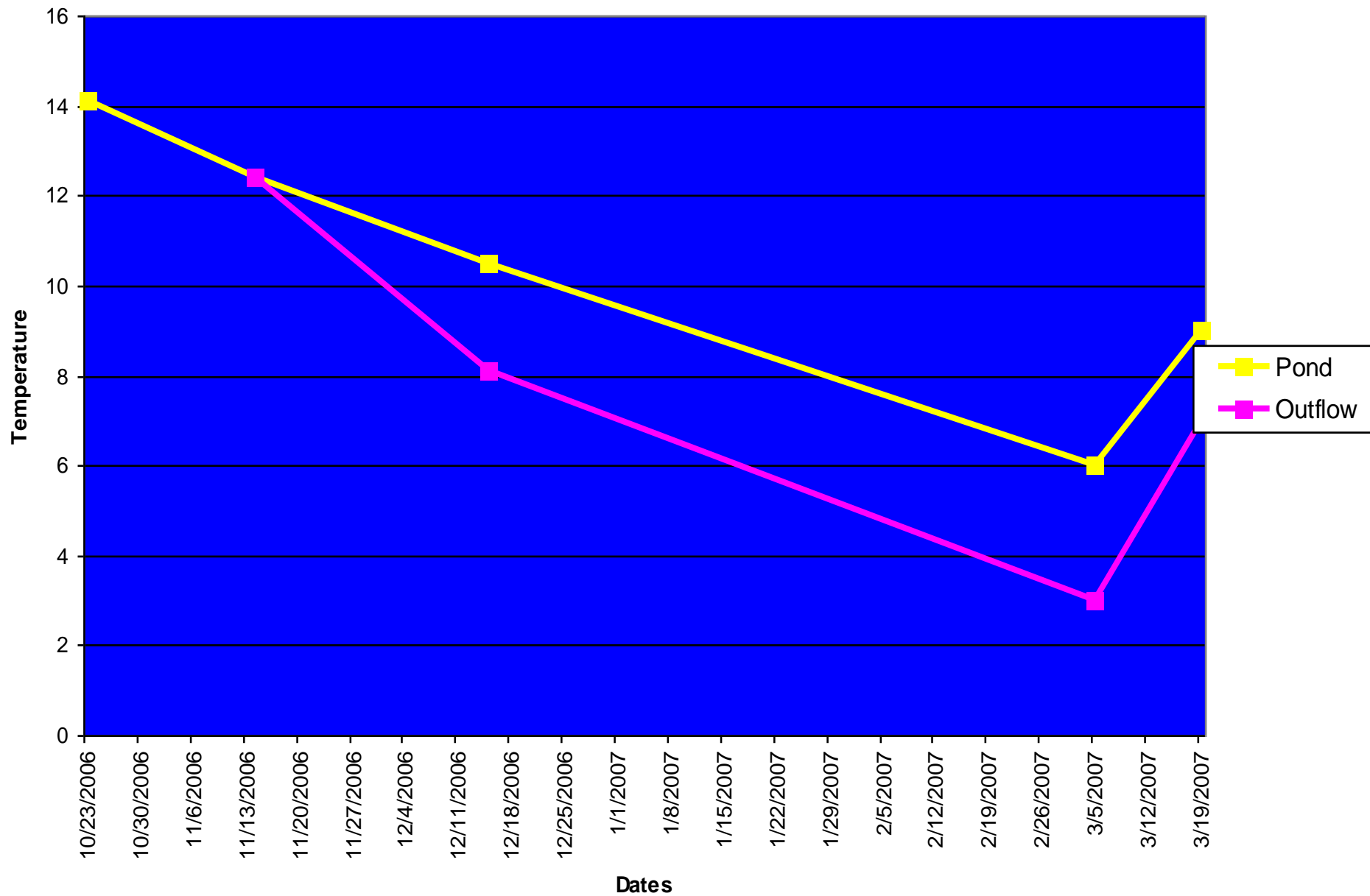
Percent Composition of Macroinvertebrates in the Pond 11/13/06



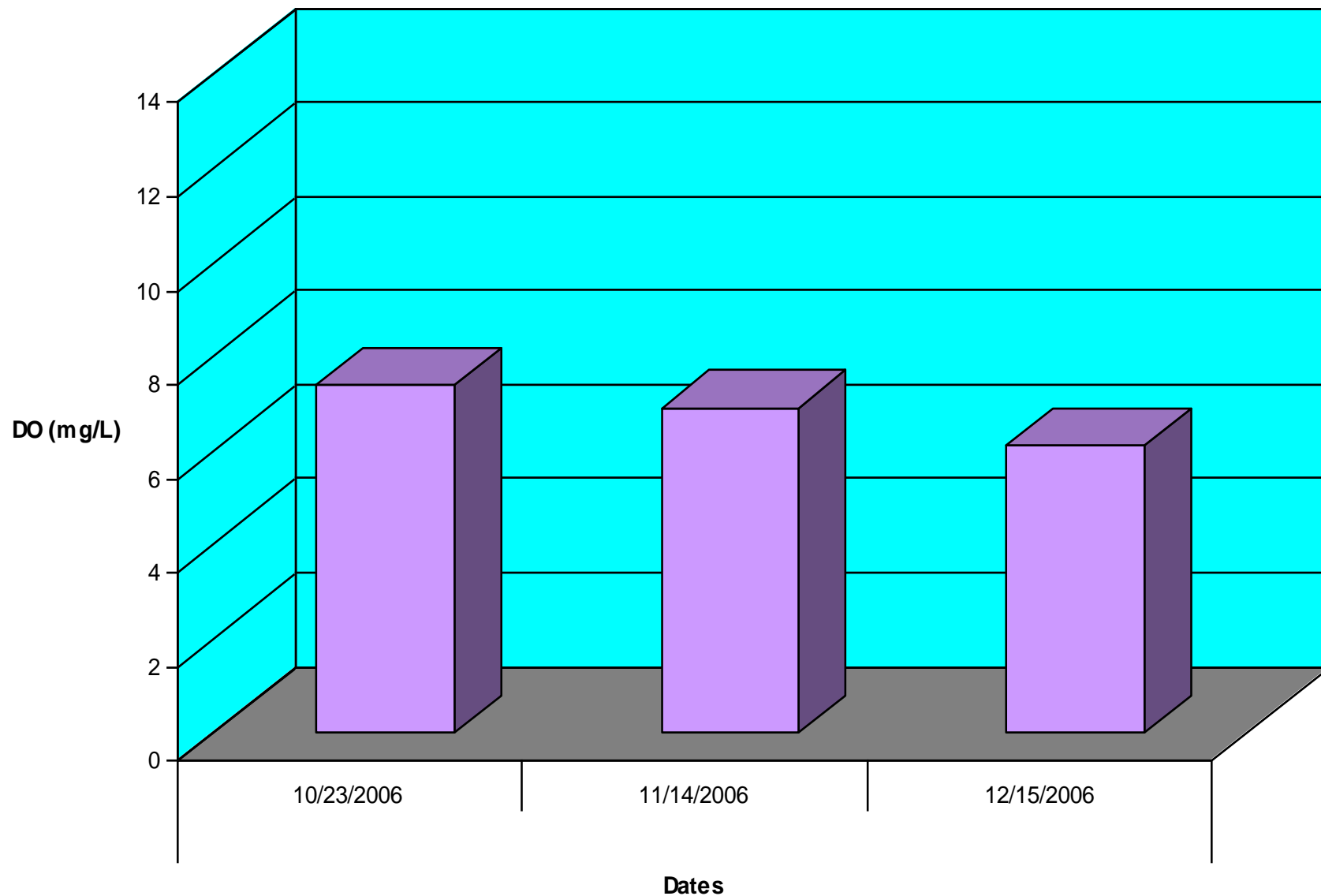
Percent Composition of Macroinvertebrates in the Outflow 11/13/06



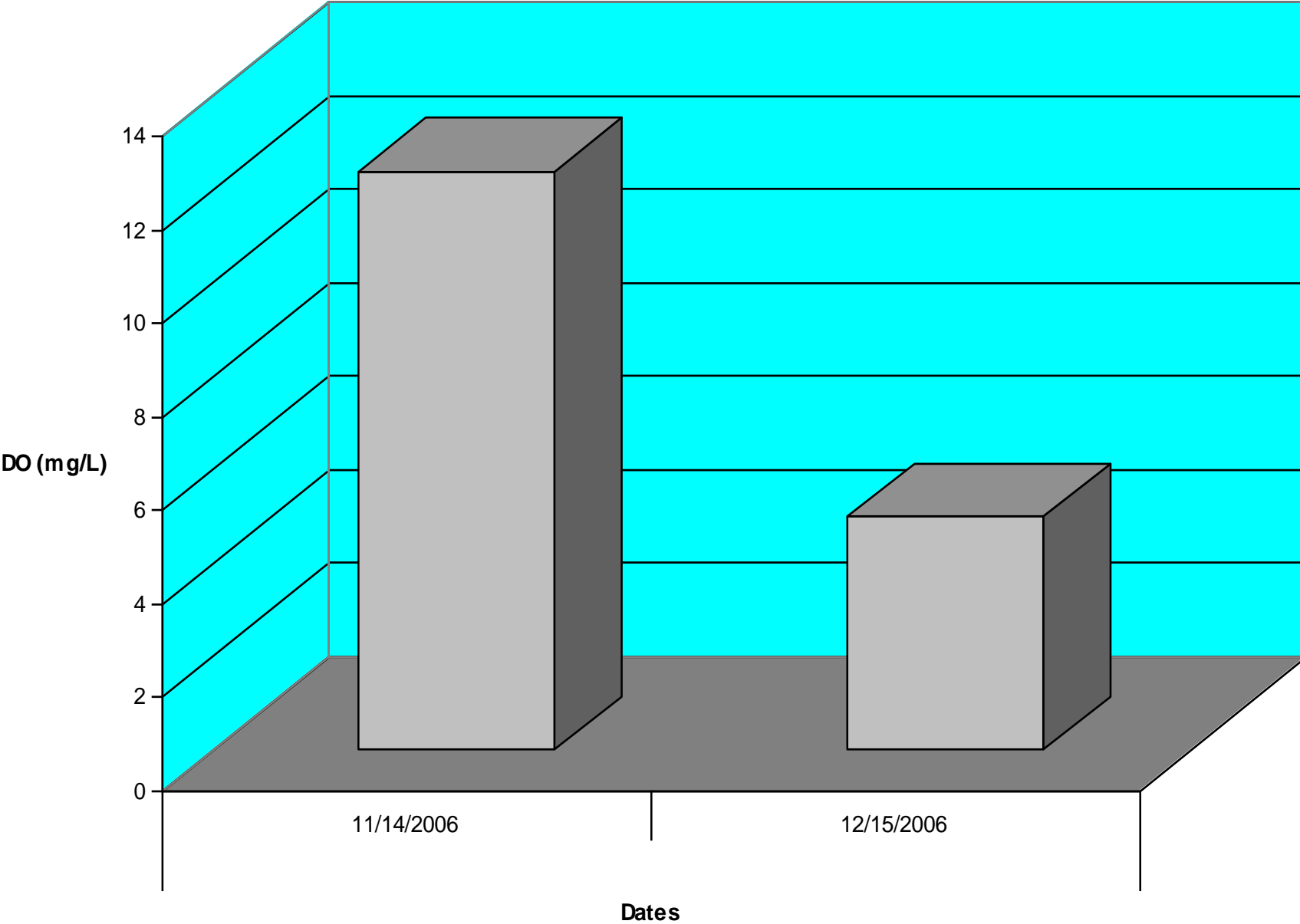
Temperature of Pond and Outflow



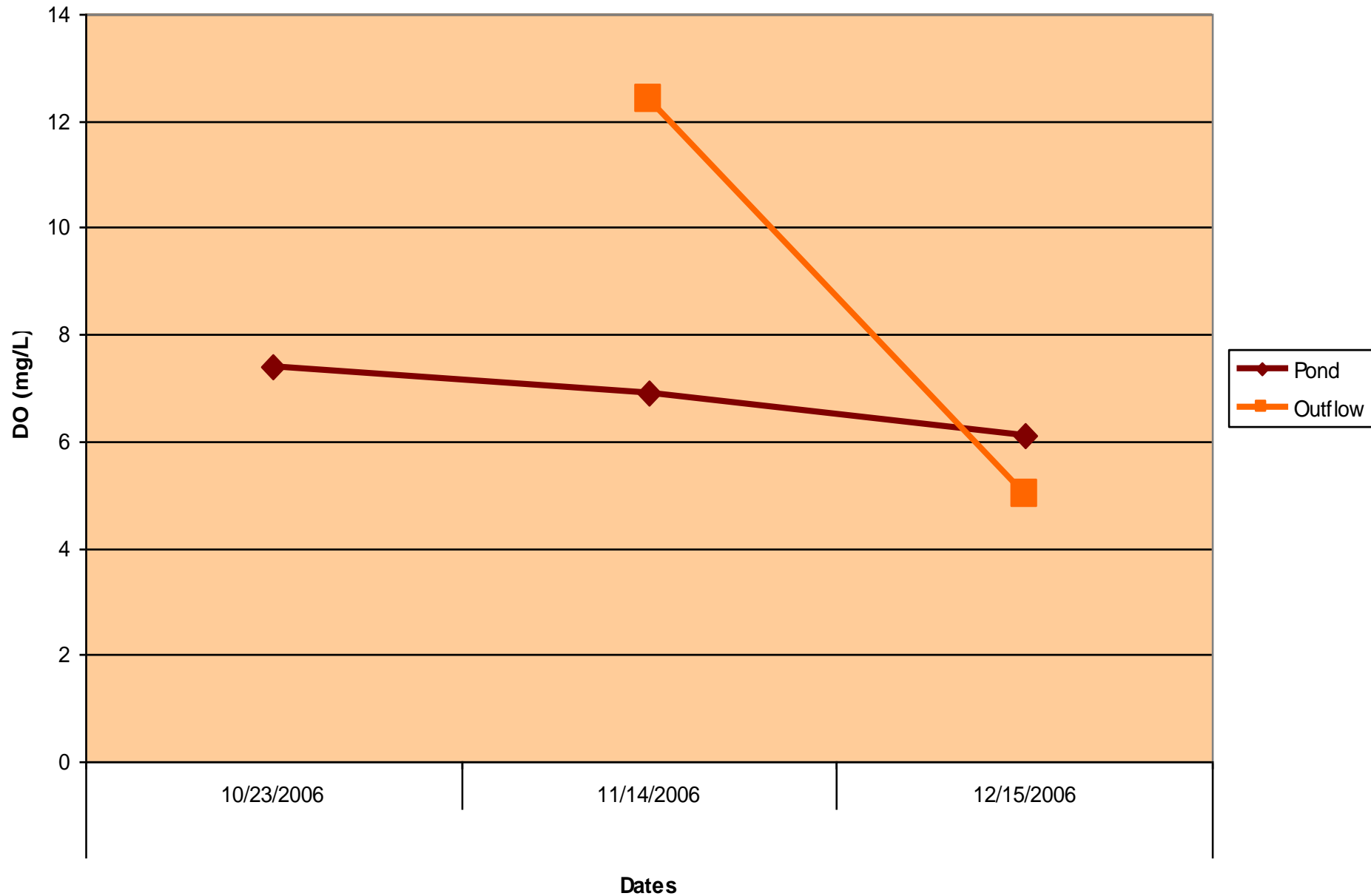
Dissolved Oxygen for Pond 2006



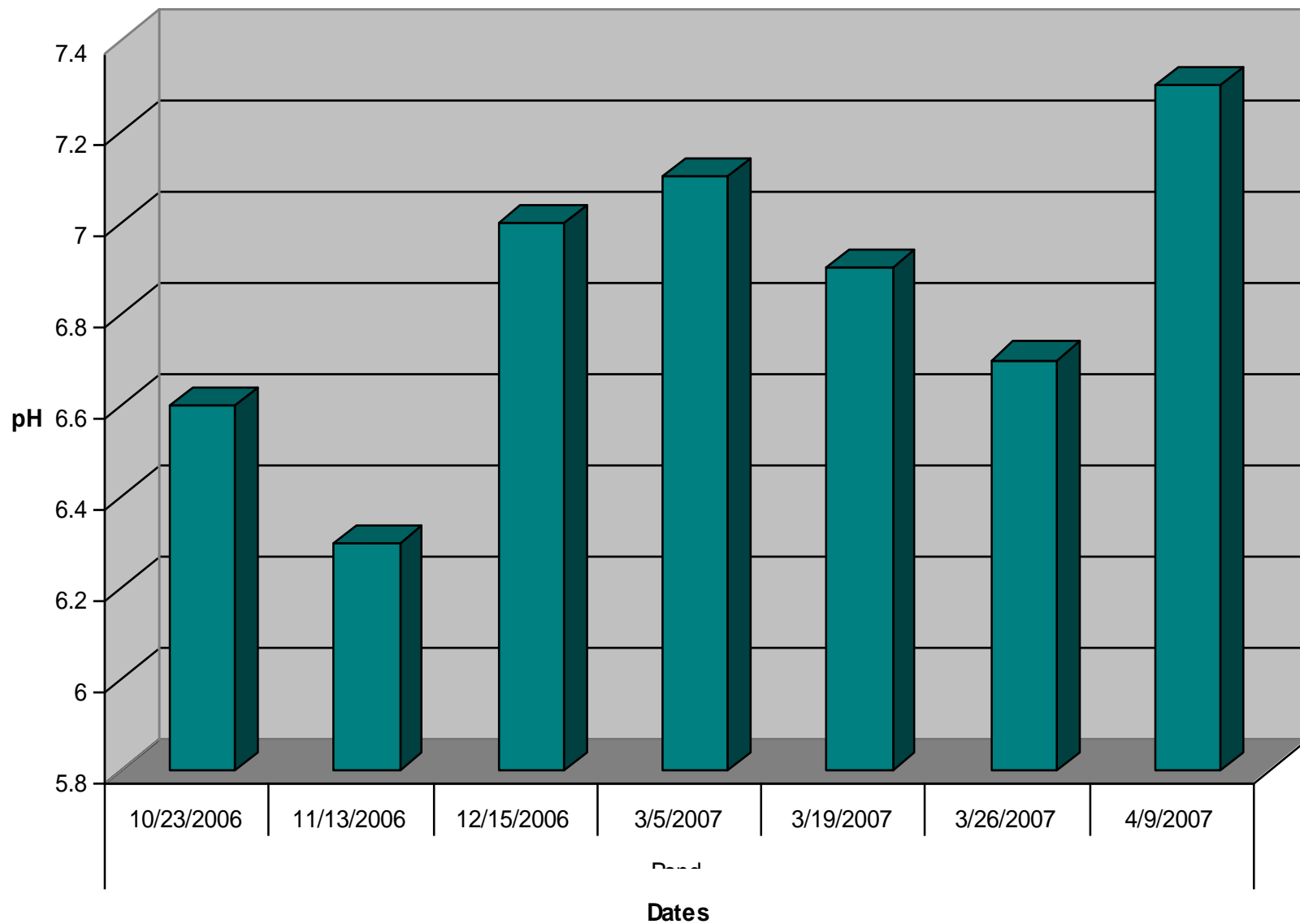
Dissolved Oxygen for Outflow



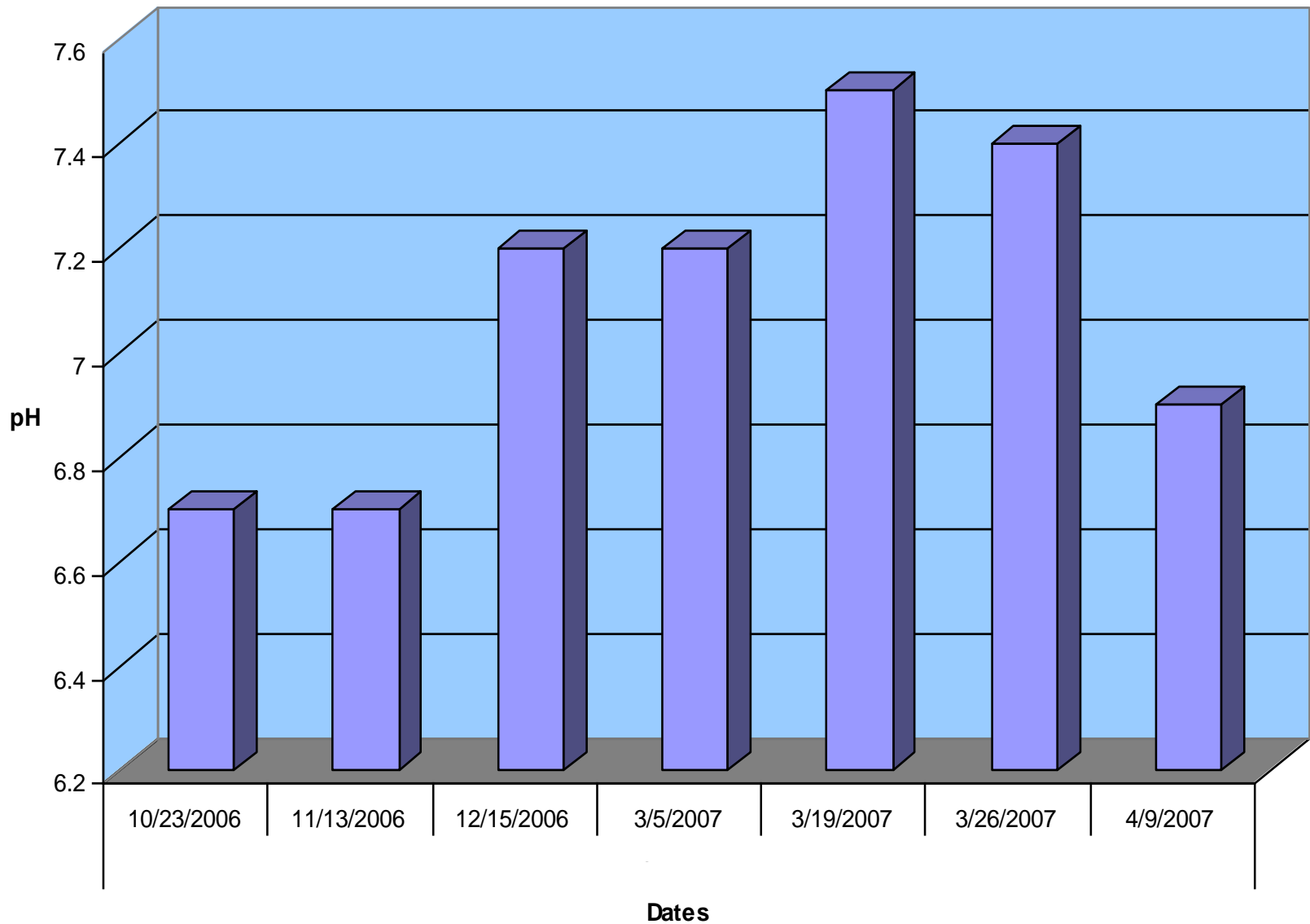
Dissolved Oxygen for Pond and Outflow



pH for Pond 2006-2007



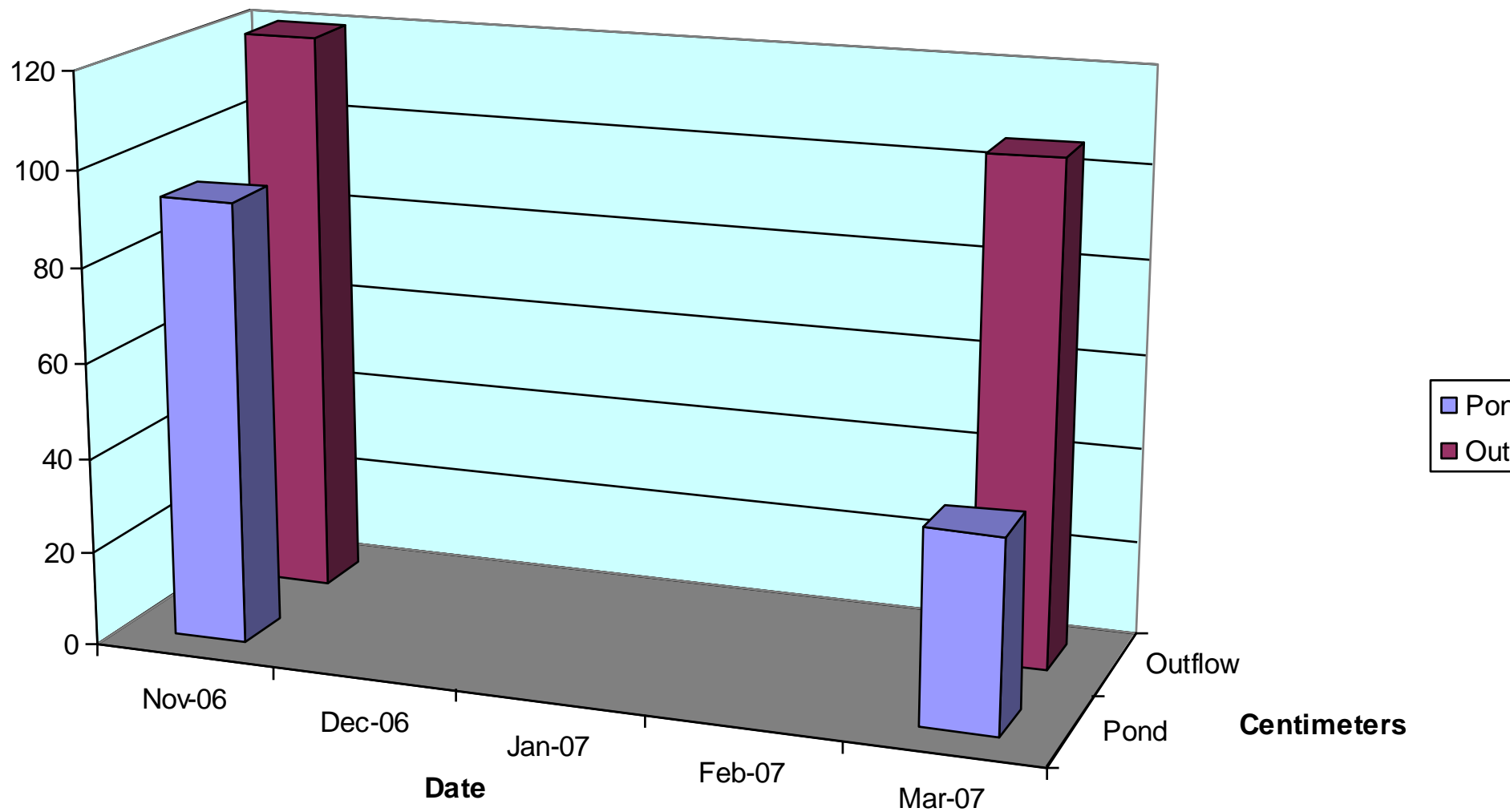
pH for Outflow 2006-2007



pH for Pond and Outflow 2006-2007



Turbidity Tube 2006-2007





















Conclusion

- Observations (visual and photographic) suggest that the outflow water is cleaner than the detention basin water.
- However, results are inconclusive. More quantitative data is needed. Turbidity and dissolved oxygen data could be more complete.

Pond



Pond



Outflow



Outflow



Conclusion

- Footprint size
- Vernal pool and pond organisms are using the newly created wetlands.
- Students and teachers are working to improve environmental conditions around the school.

Thank you for your efforts
to leave small footprints on
the Earth!

The Whitman-Hanson RiverNet Club