

*NOVA School

Moxlie Creek Monitoring

*Who are We?



*About our Site

Our site Moxlie Creek is in the Budd Inlet Watershed. We tested it in Watershed Park, walking distance from our school.

We tested two sites at Moxlie Creek.

Site 1 (Spring) - was near the source of Moxlie Creek, an underground spring.

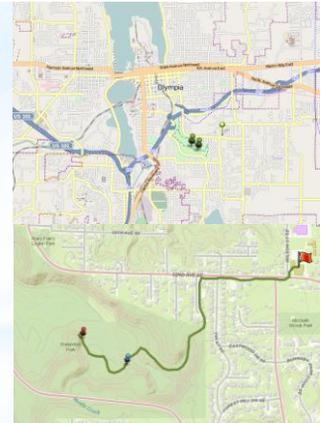
Site 2 (Stormwater) - was a tributary fed by runoff from the road..



*Map of our Site

As you can see from the maps, Moxlie Creek is located in Watershed Park, in Central Olympia.

The lower map shows the path we took as we walked from our school (flag) to Watershed Park. The blue pin is Site 1 (Spring) the red pin in Site 2 (Stormwater)



*Our Hypothesis

We thought that the site by the spring would be cleaner than the site by the storm water drain.

We thought this because the water from the storm water runs off the street where there are more pollutants.

We also thought that there will be better water quality in the winter than in the fall.

We thought this because in the fall there may still be pollutants on the ground that haven't been washed clean because there hasn't been a lot of rainfall yet.



Results -

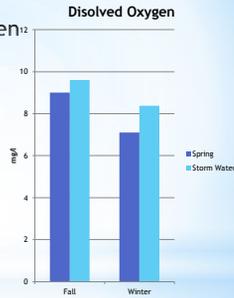
We did many different tests. For most of our tests there were not many differences.

But for others there were some interesting differences. These are the ones we will discuss.

***Results - Dissolved Oxygen**

This graph shows that there was less dissolved oxygen in winter than fall in both sites.

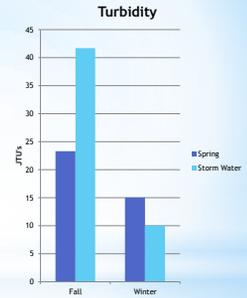
At Site 1 (Spring) there was less dissolved oxygen in both fall and winter.



***Results - Turbidity**

This graph shows that the water was a lot more turbid at Site 2 (Stormwater) than at Site 1 in the Fall.

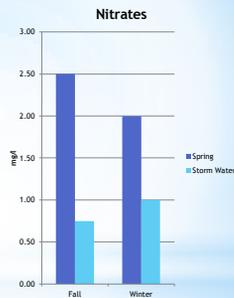
In the winter there was much less Turbidity at both sites.



***Results - Nitrates**

The Nitrates results were interesting because it showed significantly higher nitrate results from Site 1 (Spring) than Site 2 both times.

In the winter the nitrate level dropped a little in the spring site, but increased in the storm water site.



***Conclusions?**

It is hard to say if our hypotheses are right based on this data alone.

Surprisingly the Nitrates were higher at Site 1, which is not what we thought. Maybe there was dog waste affecting it.

The turbidity was much higher at Site 2, this could be because the slope is steeper there, so it picks up more sediment.



***Other Problems?**

The creek was very shallow so it was difficult to collect water without scraping the bottom and collecting sediment.

We found some of the testing difficult to do. We found it hard to be exact with the turbidity test.



Thank You!!!