

## OBSERVATIONS AND CONCLUSIONS

1. In which sample(s) did you find nitrates? \_\_\_\_\_
2. What was the probable source of the nitrates? \_\_\_\_\_
3. Compare and contrast the nitrate levels and the turbidity levels in the samples taken downstream from the cattle crossings. Include possible reason(s) for differences.

4. Choose a stream sample and note the difference in temperatures and record here.

Stream # \_\_\_\_\_ Stream Temp \_\_\_\_\_ Sample Temp \_\_\_\_\_

Note: the dissolved oxygen temp. that was recorded at stream side. What do you predict will be the DO for the current sample you have? That is, do you think the DO will be higher or lower than that measured directly in the stream? \_\_\_\_\_

Explain why you believe it should be higher or lower.

Measure the D.O. of the sample you chose and describe your observation

5. Describe how human activities may have affected any of the test results you have noted. Include in you description any remedial activities that human can do to help improve stream water quality. \_\_\_\_\_

Data Collection

Lab Group: \_\_\_\_\_

Stream	Carbonates	Stream Temp	Sample Temp	Nitrates pH	Dissolved O <sub>2</sub>	Turbidity