

ES202 Extra Credit – Local Field Trip in the mid-Willamette Valley
(from Karen Brown)

This field excursion is extra credit for lab. If possible, take some digital photos of each stop, and email them to me with some notes on each stop.

1. Go to Independence, turn south on Main Street. When you get to the bridge, about $\frac{3}{4}$ mi from the stop sign at the T on Main, find a parking place. Walk out onto the bridge, and observe the pattern of the channel of the Willamette River in this area. Note the difference from the east side (the Independence side) to the center and west (Salem) side.
2. Go back to the car. Drive over the bridge, and continue straight, so that you are on River Road. After about $2\frac{1}{2}$ miles, you will cross under a rail road track. The road is east of the track for about a mile. What do you see in this area that tells you there is active movement of surface material downslope? (There are several things; see your textbook, or my lecture notes and slides to help you. The notes and slides are on my website.)
3. Continue toward Salem on River Road. Turn left on the road to Minto-Brown Island Park. Read the park sign about the development of the park. In about $\frac{1}{2}$ mile, the road makes a sharp turn to the right. Park in this area, and walk out from the outside of the curve. What river-made feature do you see in this area?
4. Continue out Minto-Brown Island Road to the end. The river is to the north. (left side of road). What does the Willamette River do there? There is a technical term for this feature. What is it?
5. Return to River Road. Turn left, toward Salem. Describe what type of downslope movement of surface material would occur on the east side of the road (the right) in the next $\frac{1}{2}$ to 1 mile.
6. Go back to Monmouth, and turn south (left) on 99W. Go about $4\frac{1}{2}$ miles, to Helmick Park. Turn right on Old Fort Road. In about $\frac{1}{4}$ mile, turn left on Helmick Road. After you turn left, and as you cross the Luckiamute River, notice the gauging station on the south (far) bank. Describe this equipment. The park is on the right: it's a good place to make a lunch stop.
7. Turn around; go back to 99W, and cross straight across it (on Old Fort Road). As you drive east along this road, what is the pattern the channel makes? That is: how does its direction change? There is a name for this shape of channel. That's what I am fishing for. Also, as you drive along this road, what is the slope like immediately to the left of the road? What would you say about the Luckiamute River erosion here?
8. Go up to the top of the hill and turn right on Parker Road. Follow Parker Road around a few curves to the left until you reach Corvallis Road, at a T. It's about $1\frac{1}{2}$ miles. Turn right on Corvallis Road. Corvallis Road goes through turn of left-right-left-right-right-left in the next $1\frac{1}{2}$ miles or so, to Davidson Bridge over the Luckiamute River. Describe the Luckiamute River here at Davidson Bridge.
9. Turn around. Take Corvallis Road north to Prather Road (about $\frac{3}{4}$ mile). Turn right on Prather Road. This takes you to Buena Vista. Follow the signs to the ferry landing. (It probably is closed for the winter). Describe the Willamette River here at the ferry landing, including the area in the river to the north of the landing...downstream, to the left as you face the river.

Now you are done. Get your notes (and pictures if you have them) to me by email, by your lab next week, to make up for a missing lab.