

Vale 4th Grade Field Days at BBR—Fall 2010

Field Day 1—Getting to Know Your Watershed

Monday, September 27 (Griffith AM & Caples PM)

Wednesday, September 29 (Tinker AM & Lowers PM)

9:00 – 10:00 or 12:00 – 1:00

Session A—Watch pH demonstrations and learn about the pH scale—in the Barn—25 minutes

Session B—Use a watershed model to understand non-point source pollution—on the Barn deck (with Wild Fish Conservancy staff)—25 minutes

10:05 – 11:20 or 1:05 – 2:20—in BBR sector 5 near the Wenatchee River

Session A—River & salmon observations (WFC)—25 minutes

Session B—Water Quality Testing—25 minutes

- dissolved oxygen
- pH
- temperature
- turbidity

Session C—Introduction to digital cameras—25 minutes

Field Day 2—What's Out There?

Tuesday, October 5 (Lowers AM & Caples PM)

Wednesday, October 6 (Griffith AM & Tinker PM)

9:00 – 9:25 or 12:00 – 12:25—Get socks & boots on and walk to Waterfront Park

9:25 – 10:35 or 12:25 – 1:35

Session A—Macroinvertebrates in the Wenatchee River—35 minutes

- Wade into a shallow area of the river with riffles
- Use kick nets to uncover and collect insects in the gravelly substrate
- Use laminated cards to identify macros under magnification at tables on shore

Session B—Document discoveries with a digital camera in a scavenger hunt—35 minutes

- Plants, algae, and fungi
- Animal remains (e.g. scat, tracks, bones, feathers, nests)
- Insects
- Other animals (e.g. mammals, birds, fish, spiders)

10:45 – 11:15 or 1:45 – 2:15—Study live macroinvertebrates in the Barn—35 minutes

- Observe macroinvertebrate characteristics under flex-cam
- Use interactive (Internet) dichotomous key to classify macroinvertebrates
 - stoneflies & mayflies
 - caddisflies
 - other

Field Day 3— What’s Out There?—The Sequel
Wednesday, October 13 (Griffith AM & Tinker substitute PM)

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| 9:00 AM | Bus drops morning class at <u>Blackbird Island</u> (first bridge) and students leave backpacks on raised viewing area |
| 9:15 – 10:00 | Guided walk with binoculars to view salmon spawning on the Wenatchee River |
| 10:00 – 10:15 | Pick up backpacks and walk to Barn at Barn Beach Reserve |
| 10:15 – 11:15 | Observe and record physical and behavioral characteristics of live vertebrates and invertebrates in Barn |
| 11:15 – 11:45 | Bus drops afternoon class at <u>Barn Beach Reserve</u> and both classes eat lunch at BBR; bus takes morning class back to Cashmere |
| 11:50 – 12:50 | Observe and record physical and behavioral characteristics of live vertebrates and invertebrates in Barn |
| 12:55 – 1:10 | Walk to Blackbird Island with backpacks; leave them on raised viewing area |
| 1:10 – 2:05 | Guided walk with binoculars to view salmon spawning on the Wenatchee River |
| 2:15 PM | Students board bus at <u>Blackbird Island</u> for trip back to Cashmere |

Session A—Inside the Barn—60 minutes

Observe and record physical and behavioral characteristics of live vertebrates and invertebrates, such as:

- ✓ Hissing cockroach—insect
- ✓ Goldfish—fish
- ✓ Guinea pig—mammal
- ✓ Leopard gecko—reptile
- ✓ Rose-haired tarantula—spider
- ✓ Fire-bellied toad—amphibian
- ✓ Red-eared slider (turtle)—reptile
- ✓ Giant millipede—arthropod

Session B—At Blackbird Island on the Wenatchee River —50 minutes

Guided walk with binoculars and spotting scopes to view salmon spawning

Friday, October 15 (Lowers AM & Caples PM)—modified due to bears

Session A—Inside the Barn—60 minutes

Observe and record physical and behavioral characteristics of live vertebrates and invertebrates, such as:

- ✓ Hissing cockroach—insect
- ✓ Goldfish—fish
- ✓ Guinea pig—mammal
- ✓ Leopard gecko—reptile
- ✓ Rose-haired tarantula—spider
- ✓ Fire-bellied toad—amphibian
- ✓ Red-eared slider (turtle)—reptile
- ✓ Giant millipede—arthropod

Session B—Outside—60 minutes

- 1) *Chalk drawing on the sidewalks near the River Haus—reflections on experiences at BBR*
- 2) *Using dichotomous keys of leaf characteristics to ID selected trees and shrubs at BBR*