

January 16, 1976

To: Clar Pratt

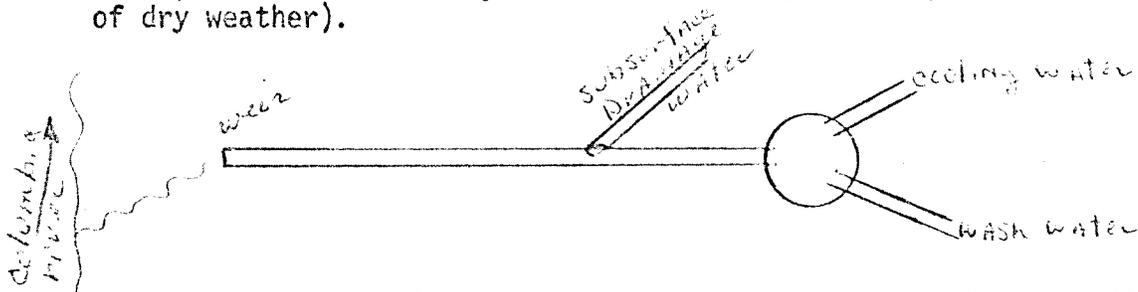
From: G. Scott Jeane II

Subject: Underwood Fruit Co. at Bingen

The Underwood Fruit Company waste stream was composite sampled on October 1, 1975 in conjunction with a receiving water survey of the Columbia River adjacent to Bingen. The receiving water study report will be forwarded to you as soon as possible.

The fruit company was washing and packaging pears (275,000 lbs/day) during the survey. A five hour composite of the effluent was completed at the wooden rectangular weir located in an inaccessible blackberry patch. Access was achieved only after thirty minutes of trimming vines with pruning shears.

The plant flow is a sum of 1) 8 hour wash water, 2) 24 hour cooling water and 3) subsurface drainage water (The survey was completed during a period of dry weather).



At the time of the survey I was not aware that their waste discharge permit dealt with cooling water and process water separately. The total flow was measured at the effluent weir for 5 hours and computed to an 8 hour work day flow. The average daily flow was determined to be 0.032 MGD. The flow was very sporadic in nature and ranged from a minimum of 667 gal/day to a maximum of 105,000 gal/day.

The following results were obtained from the composite sample.

Parameter	mg/l	lbs/day
COD	126	--
BOD	45	12.0
NO ₃ -N	1.0	0.3
NO ₂ -N	0.04	0.01
NH ₃ -N	0.33	0.09
O-PO ₄ -P	0.53	0.14
T-PO ₄ -P	0.71	0.2

During the composite sample collection pH, and conductivity was measured every 30 minutes. The pH ranged from 9.9 to 10.5 with a median of 10.2. These values exceed the permit limitations. The conductivity in umhos/cm at 25°C ranged from 1000 to 3500 and averaged 2230.

The industry should be resurveyed during the 1976 packing season with composite samples and flows completed on both discharges.

GSJ:ee

