

PHOTO A: Discarded pumpkins at Vacca Farm, 11-16-98. Hundreds of crows, starlings and seagulls were feeding on the pumpkins before being scared away by my visit. Notice highly degraded condition of wetland, where wetland plant community is disrupted yearly by agricultural planting. Vegetable stand (on east side of Des Moines Memorial Drive) was located to right of blackberry bramble in center right of photo. The yearly disposal of pumpkins at site attracts a significant number of birds which in turn creates a significant bird strike hazard.



PHOTO B: Flock of geese at Vacca Farm 11-16-98. Photo is taken towards ESE. Miller Creek runs in ditch to east of (behind) single tree at center top of photo. Creek is not buffered. Homes in background are located in zone of proposed embankment fill. Field had been planted in pumpkins earlier in year. Several hundred mallards and widgeons were using field at the time. Waterfowl use at site will significantly decrease after restoration. These photos represent the baseline conditions for the project at the farm.



Photo C: Vacca Farm pumpkin field 4-29-97. This field over-wintered without a cover crop, resulting in chronic discharges of sediment and nutrients to the un-buffered creek. Urban waterfowl are a significant source of fecal coliform in urban basins.

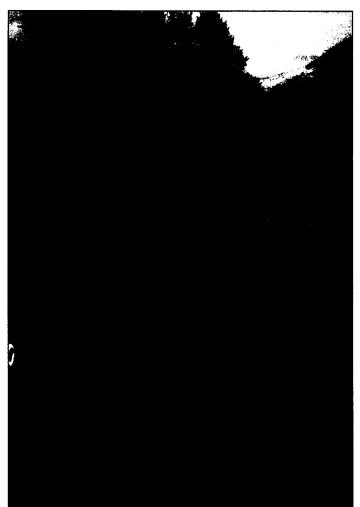


Photo D: Miller Creek through Vacca Farm 4-29-97. Note lack of buffer on creek, with structures built on edge of creek on right side, and field ploughed within ten feet of creek on the left.

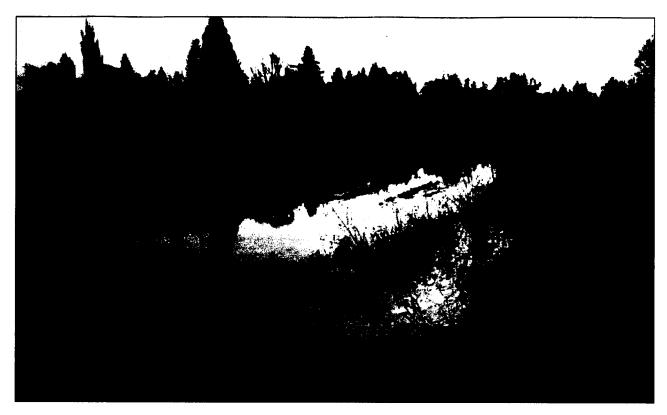


PHOTO E: Flooded corn field at Vacca Farm 11-16-98. Peat soils are sufficiently drained by on-going agricultural manipulations during the growing season to support a crop of corn. November 1998 had unusually high amount of rainfall. This flooding is unusual.



PHOTO F: Flooded corn field at Vacca Farm, 11-16-98.



Photo G: Photo of Des Moines Creek as it flows through the golf course at the southern end of the runway, taken 11-16-98. Visit followed storm event, which resulting in fairly significant flooding of golf course fairways. Golf course attracts waterfowl, presenting a bird strike hazard to the airport. Implementation of the NRMP will result in the restoration of the golf course fairways that are wetland to a scrub-shrub wetland community.



Photo H: Tyee Golf Course, flooding after storm event. Des Moines Creek flows from right to left. Use of golf course by waterfowl presents a significant bird strike hazard. Taken 11-16-98.