K-Beach Flood Impact Area

Situational Analysis And Outlook April 7, 2015

diverting water from the wetlands Previous attempts at ditching and downstream consequences while providing no measurable benefit. have resulted in unanticipated

that development / activity in the wetlands in Both ADNR and Borough hydrologists agree wetlands to function properly and created this area has reduced the ability of the impacts to surrounding properties.

within the Borough designed to hold Are the ditches on maintained roads water temporarily to allow it to dissipate?

The short answer is yes — In many cases this is the only economically feasible way to construct roads in rural areas with flat topographical characteristics.

- Kenai Peninsula Roads have historically been designed to hold water in their ditches and allow that water to dissipate (absorb) into the underlying groundwater.
- This approach is still used today.
- This approach meets Borough code KPB 14.06.170 reads: Roads shall be constructed to prevent ponding of runoff waters in the roadside ditches. Drainage ditches shall be constructed such that runoff waters will be conveyed to natural drainage courses, ditches or waterways, or other man-made drainage courses
- Looking at each portion of code:
- Roads shall be constructed to prevent ponding of runoff waters in the roadside that are Borough maintained is to limit this ponding as much as reasonably inevitable to some degree. The intent of the code and the design of the roads ditches – Long term ponding in ditches is not desirable. However, ponding is possible
- Drainage ditches shall be constructed such that runoff waters will be conveyed drainage courses. – Drainage ditches should convey water to natural drainage be so cost prohibitive as to make many rural developments unfeasible drainage systems where above ground drainage systems are not possible would drainage courses is virtually impossible. Installing underground storm water underground aquifers. Draining all drainage ditches to above ground natural courses. Natural drainage courses include both above ground drainages and to natural drainage courses, ditches or waterways, or other man-made