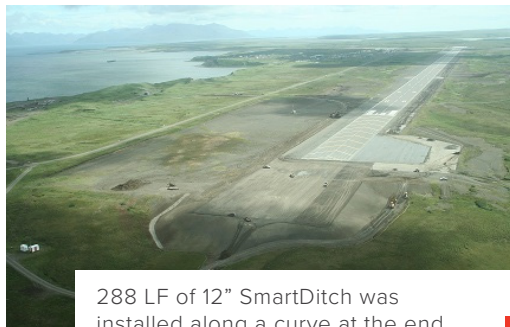


FAILING, OLD RIP RAP CHANNEL AT AIRPORT REPLACED WITH SMARTDITCH

STATE OWNED, PUBLIC AIRPORT IN COLD BAY, ALASKA GETS MUCH NEEDED RUNWAY DRAINAGE UPGRADE

Problem

Cold Bay is a small city in Aleutians East Borough of Alaska. Its airport, formerly an army airfield in WWII, now serves as an unmanned public airport and averages about 25 flights per day. Weather and climate conditions call for frequent maintenance to the runway. Since it was due to be repaved, authorities also wanted to address a 250 LF section of ditch that perpetually washed out during heavy rain events. Historically, the maintenance crew would re-excavate the ditch and add more rip rap ... only to have it fail again. This time around they wanted to design a more permanent solution.



288 LF of 12" SmartDitch was installed along a curve at the end of this runway.

Solution

Finding SmartDitch through the internet, an airport official called the local SmartDitch representative and asked for a proposal. After the initial visit, a presentation, design recommendation and estimate were given to the AK DOT for final sign off. After DOT officials agreed this was the best solution the local contractor set the construction schedule. In all, 288 LF of 12" depth SmartDitch was recommended to reline the old ditch. Once installed, the airport would no longer have to worry about scoured rip rap, soil erosion and poor stormwater drainage near the runway.

Installation Went Quickly and Smoothly: The contractor, who works on a wide range of projects for the airport had no prior experience installing SmartDitch. However, with expert installation assistance and guidance from SmartDitch Distributor, Alaska Garden & Pet Supply, the installation took only 2 days to complete. That included the reexcavation of the channel, removal of the old rip rap and assembly of the SmartDitch.

Project Came in 30% Below Budget, Customer Pleased With Performance. Since it typically takes 50% more rip rap to achieve the same flow and performance characteristics of SmartDitch, it was estimated that Smartditch saved the airport 30% (including cost of materials and installation), which is pretty significant savings!



Edge protection is installed on the "high" slope side of the SmartDitch channel to help prevent erosion beneath the channel.

Quick Facts

- ◆ **PROJECT:** Cold Bay Airport Runway Drainage Ditch
- ◆ **PRODUCT:** 12" Depth SmartDitch
- ◆ **LENGTH:** 288 LF
- ◆ **INSTALLATION TIME:** 2 Days
- ◆ **DESIGN ENGINEER:** Penda/SmartDitch
- ◆ **SMARTDITCH DISTRIBUTOR:**
Alaska Garden & Pet Supply
Andy Lord andy@alaskamillandfeed.com



The Cold Bay Airport runway is located above and left of the SmartDitch channel. SmartDitch will carry run-off away from the runway and protect the slope from erosion.

SmartDitch is manufactured in the USA. It is a safe, economical, long-lasting, and environmentally sound irrigation channel lining solution. For more information on the SmartDitch and the MegaDitch HDPE Channel Lining Systems contact:



866.576.2783 SMARTDITCH.COM