

CRANWEST FARMS

DELTA, BC, CANADA

AGRICULTURE

WIRELESS ON THE FARM

A well established 300-acre cranberry growing operation, Cranwest Farms is situated in Burns Bog, the largest domed peat bog on the west coast of North America.

PROJECT DETAILS

At Cranwest Farms, an elaborate underground irrigation and water management system is required to protect the crop from frost, provide crop irrigation and chemigation, and to control tail water recovery, surface runoff, flood control, and water management for harvesting. Pumps range in size from 20–250 HP.

Punctuated throughout the 300-acres are twelve station locations, each of which employs MS/TP topology to translate data to Dual Protocol IP and broadcast via 2.4 GHz wireless bridges to two 90-degree sector antennas installed back to back on a 48-foot tower in the center of the property. A 5.8 GHz RF back-haul link connects all stations to the central station where access to the Internet and the OWS is installed.

The Cranwest Farms installation of a Reliable Controls® MACH-System is unique in its implementation of wireless Dual Protocol IP RF segments to link remote pump station controllers to a central station for monitoring and control. Major savings for Cranwest Farms are realized in better stress management for the staff, especially during the critical frost protection stage of the growing cycle. The operation can now be monitored offsite, as the system will email alerts and alarm messages for all phases of the operation.

To learn more about projects using Reliable Controls® visit www.reliablecontrols.com/projects/overview



PROJECT TYPE:

Retrofit & New Construction

INSTALLATION TYPE:

Power Monitoring, Pump Control, Security, Water Monitoring

TOTAL AREA:

**1.2 Million m² Net Growing Area
(13.1 Million ft² Net Growing Area)**

EQUIPMENT INSTALLED:

**1 MACH-ProCom™
1 MACH-Stat™
5 ETHER-Link™
5 MACH2™
6 MACH-ProSys™
10 MACH2X™**

NETWORK:

EIA-485, Ethernet, LAN

INTEGRATION:

BACnet®

TOTAL SYSTEM POINTS:

276 points

RELIABLE CONTROLS® DEALER:

Lange Installations Ltd.

www.reliablecontrols.com