

**Project: Climate Monitoring**  
**Client: United Park City Mines**  
**Location: Park City, Utah**  
**Year: 1999**

Intermountain Environmental was contracted by United Park City Mines to assist with the design and installation of a weather station that was going to be used to monitor the climate conditions at the potential site of a new real-estate development near Park City, Utah.

**Application Notes:**

A real estate developer needed to collect climate data for a couple of years prior to the development of a resort area high in the mountains of Northern Utah. The climate data would be used to determine whether the location would be a viable place to build.



*Weather Station near Park City, Utah. Data logger is buried to protect it from vandalism and the environment.*



*Enclosure is sealed inside of a plastic cooler, to protect it from vandalism.*



*Plastic cooler instrument vault is prepared for burial.*

**Installation and System Design:**

The site was located in a very public area and therefore required steps to be taken to prevent vandalism and damage to the equipment. An inexpensive instrument vault was created using a plastic cooler. This also provided some insulation for the instruments. Holes were drilled in the cooler and liquid-tight cable seal connectors were used to create places to route the wires from the CR10X data logger to the sensors on the IT10 Instrument Tripod. A large hole was dug next to the instrument tripod and the bottom was filled with rocks to provide additional drainage should water accumulate in the area around the cooler. The cooler was then placed on top of the rock and buried under about 1 foot of soil.

Sensors at the site included Wind Speed and Direction (WS3001), Relative Humidity and Temperature (RH45). The site was powered by a 12-volt DC, 7-amp hour battery that was charged by a 10-watt solar panel.

Data was collected by digging around the top of the cooler until the lid could be opened and then connecting a laptop computer via an SC929 Communication Cable.

For Information on this project or these products please contact:

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