

## Copper Mountain Construction Dewatering



During redevelopment of the Copper Mountain Ski Resort base area, WWE assisted Intrawest Resort Development and their contractor, Amako Resort Construction (ARC), in preparing stormwater management plans, training staff for inspections, designing a construction dewatering discharge treatment system, sample collection and regulatory reporting.

WWE also provided a conceptual permanent dewatering system design for a nearly three-acre parking garage that serviced four residential and commercial structures. This design included four sumps fitted with duplex pumps handling a maximum 2,000 gallons per minute each. One of the greatest challenges of this project came as the Lake District core of The Village was nearing completion. The project team had relied on West Lake, a roughly 12 acre-foot pond in the base area, for treatment of stormwater runoff and construction dewatering discharges due to the long residence time of the lake. Final design required that the West Lake Pond be reconfigured and lined. Working with Intrawest and ARC, WWE developed a strategy to create a “pond within a pond” that was used for stormwater and construction dewatering discharge management while grading and other site work was performed in the dry portion of the pond.

WWE performed bioassessment of West Tenmile Creek upstream and downstream of the project before and after construction activities at The Village and found that the construction activities had no impact on the creek biota. In fact, subsequent biomonitoring indicated modest improvement in the macroinvertebrate community.

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