**Assessment options**

The students prepare a technical report addressing their design. A standard technical report rubric can be used for assessment. The instructor will want to modify the rubric to reflect the learning outcomes and to apply weighting for each outcome.

I still give an exam covering some of the technical concepts from the project to each student. I include a single pipe system problem to solve. It may include a pump, but the students do not have to select a pump. The problem requires about 20 to 30 minutes to solve.

Concerning assessment of the entrepreneurial mindset, as of 2017, there is not a standardized tool for assessment. You may just adapt the student survey included in the documentation here to be a direct assessment tool with a scoring scale. Be aware that some teams (~50%) will not discover the opportunity. The instructor should consider NOT penalizing those students, because they still learned the technical material (pipe and pump design). The teams that did identify the opportunity and thereby drastically reduced costs can receive bonus points.

Be sure to spend some class time reflecting on the submitted designs (after they are graded and returned). The teams that did not notice the opportunity will certainly remember the opportunity missed once it is revealed. After grading the reports, the instructor may also want to distribute and reiterate important considerations from the document titled “Wilderness Resort Lodge Project Notes.”