

In Class Exercise: Landscape Performance Case Study

Due Jan. 29, 12:50pm

The purpose of this exercise is to familiarize you with the Landscape Performance Series website, and help you understand the relationship between sustainable features and performance benefits. Further you will learn some methods and tools the Case Study Investigation (CSI) research teams used to quantify landscape performance benefits.

Step

1. Explore the Landscape Performance Series website → Case Study Briefs, (<http://landscapeperformance.org/case-study-briefs>), and select a project you want to study.
2. Review the project and download “Method” (PDF)
3. Prepare a report:
 - a. Basic info: name, location, acreage, designer, year of completion, budget.
 - b. What are the challenges and solutions?
 - c. What are the major lessons learned?
 - d. What are the sustainable features?
 - e. What performance benefits did the sustainable features create?
 - f. What are the methods used to quantify each performance benefit?

Example for Questions (d-f)

- **Sustainable Feature:**
A 50-ac constructed wetland to treat 5,000 household sewerage water
- **Performance benefit:**
 1. Reduced the use of potable water for irrigation by 121,671,400 gallons by using reclaimed water since 2009
Method: second hand data from the designer
 2. Reduces concentration of nitrogen by 85%, phosphorous by 97%, potassium by 57%, calcium by 54%, magnesium by 52%, sodium by 85%, zinc by 7%, Copper by 93%, and manganese by 51%.
Method: collecting water samples and sending them to water lab for quality analysis.