TRWD Rainscapes Virtual Field Trip Lesson Plan

***Teachers, please email watersheds@trwd.com to obtain the answer key.**

TEKS (Environmental Systems)	5.B identify source, use, quality, management, and conservation of water 5.C document the use and conservation of both renewable and non-renewable resources as they pertain to sustainability 5.D analyze and evaluate the economic significance and interdependence of resources within the environmental system 9.A identify causes of air, soil, and water pollution, including point and nonpoint sources
Objectives	• Define Low Impact Development and Green Stormwater Infrastructure, and explain various benefits of these components when used in an urban-ecological setting. • Identify sources of pollution that are treated or mitigated by the use of LID and GSI. • Calculate the water conservation savings of practices such as rainwater harvesting.
Materials	• TRWD Rainscapes Storymap: https://arcg.is/09ffqO0 • Worksheet (available as editable Word document or fillable PDF)
Procedure	This lesson may be completed in-person or online. The learner will read the worksheet to prepare for questions. The learner will open the TRWD Rainscapes Storymap, which is linked at the top of the worksheet. The learned will use the worksheet to explore the storymap, answering questions as they go. Note that the worksheet and the storymap are not completely linear; completing the worksheet will require scrolling back and forth across multiple sections of the storymap.
Demonstration of Learning	The learner will complete the associated worksheet with at least 90% accuracy.
Extensions	• For a more in-depth lesson on components of Green Stormwater Infrastructure consider this lesson from Teach Engineering: https://www.teachengineering.org/lessons/view/usf_stormwater_lesson02 • For hands-on activities on how GSI promotes infiltration see these two labs from Teach Engineering: https://www.teachengineering.org/lessons/view/usf_stormwater_lesson02 and https://www.teachengineering.org/activities/view/usf_stormwater_lesson02_activity3