



Purpose and benefits of sustainable infrastructure rating

In 2011, the Department of Public Works (DPW) adopted the Institute for Sustainable Infrastructure's (ISI) sustainability rating system, EnvISlon™ in order to establish a common platform to define sustainable infrastructure and thereby to identify planning, design, construction, and maintenance processes that can effectively integrate sustainable principles and practices. Sun Valley Multi-benefit projects have been promoted by DPW as a model infrastructure project. Therefore, sustainability evaluation of these projects by an industry's leading sustainability rating system will provide a great opportunity to showcase how DPW has been integrating sustainable practices into civil infrastructure of all sizes and complexities and further demonstrate DPW's commitment for enhancing community well-being.

EnvISlon™ rating, verification, and award

EnvISlon™ applies to civil infrastructure of all types by rating the project's economic, social, and environmental impact during design, planning, construction, and maintenance phases. EnvISlon™ rating can be done by ISI-credentialed DPW staff. The rating results will then be submitted to ISI for third-party verification, based on which ISI will determine the award level for the project. ISI will then host a ceremony and present an award.

Sun Valley Watershed Multi-benefit Project

Sun Valley Watershed Multi-benefit project has been planned and managed with a goal of improving community quality of life by providing sustainable multi-benefit infrastructure. The project is a first-of-its-kind venture geared at managing storm water for the Sun Valley Watershed to provide flood protection, improved watershed health, an increase in open space and recreational opportunities, and an increase in wildlife habitat. The objective was to solve the local flooding problem while retaining all stormwater runoff from the watershed, increasing water conservation, recreational opportunities, and wildlife habitat, and reducing stormwater pollution. This led to the development of the Sun Valley Watershed Management Plan which identified fifteen pilot projects that collectively achieve the established watershed goals. Among more than 10 originally planned projects, 8 projects have been identified as either constructed or substantially in progress, and therefore have been included in the list of projects for sustainability rating.

Project Components
Valley Steam Plant
Tuxford Green
Sun Valley Park Drain and Infiltration Basins
Rory M Shaw Wetlands
Sun Valley Watershed Upper Storm Drain System and Recycled Water Line
Elmer Avenue Neighborhood Retrofit
Elmer Avenue Paseo
Whitnall Powerline Easement
Projected total cost: \$137 Million

Schedule

DPW has rated the project using EnvISlon™ and is currently closely working with ISI to complete verification process toward an award.

Sun Valley Watershed Multi-benefit Project



EnvISlon™ rating system structure

EnvISlon™ rating system has 60 sustainability criteria—divided into five categories, each with two to three subcategories:

Rating Categories	Subcategories
Quality of Life	Purpose, Well-being, Community
Leadership	Collaboration, Management, Planning
Resource Allocation	Materials, Energy, Water
Natural World	Siting, Land & Water, Biodiversity
Climate and Risk	Emissions, Resilience

EnvISlon™ Award Levels

To qualify for an award, projects must achieve a minimum percentage of the total applicable EnvISlon™ points. There are four award levels.

Award Level	Total Applicable Points (%)
Bronze Award	20
Silver Award	30
Gold Award	40
Platinum Award	50