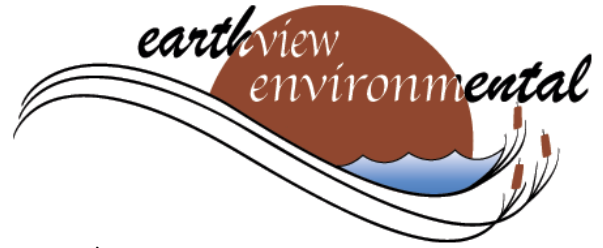


September 12, 2017

Jeff Maxwell
3011 Sierra Court SW
Iowa City, Iowa 52244



RE: OUP East Ravine Restoration – Quarterly Report 2 (May – August 2017)

To Jeff Maxwell:

This letter is to provide an update to the conditions of the east and west ravine restorations at One University Place.

The east ravine has been monitored by our Biologist, Will Downey, on a monthly basis during 2017. The vegetation composition of the planting has performed as expected for a site in its first full growing season. The east ravine was dominated by black eyed Susan (see photo 1) with several other species from the seed mix showing up, including: smooth blue aster, Virginia wild rye, Canada wild rye, big bluestem, and purple coneflower. Because of the amount of flowers for pollinators, we decided to hold off mowing until the late fall. There is some Burr dock and Canada mare's tail present within the planting. The Burr dock has been sprayed and both species will be controlled with mowing, removal, and herbicide where necessary. This ravine will be mowed later this September and any invasive or problematic vegetation will be sprayed as it re-sprouts.

Early this spring, we noted some minor erosion along the east end of the ravine. The water was diverted upstream and sod was installed in the area where the soil had shown some signs of erosion and the vegetation had not yet established (photo 2).

All of the planted trees and shrubs from last year are still viable, with most of the trees at a height of 5-6 feet. The tree cages and grow tubes have successfully prevented any potential damages from deer activity. We will keep the cages and tubes on throughout the winter to prevent damage by deer. The deer may munch on the trees growth above the tubes, but the tubes prevent the deer from browsing the tree to the ground. There may be damage to the top growth, but it will recover. We will evaluate the conditions in early summer and determine if we want to remove the cages/tubes or leave them on for at least another year.

Mr. Downey also monitored the west ravine periodically. All shrubs that were planted are still alive and show no signs of damage or potential issues. Most of the mulch around the base of the shrubs has washed away and should be replaced to help prevent any competition from weeds in 2018. The area has vegetated in with turf grasses as well as common ragweed (annual) and clover (photo 3). There were no erosional issues observed on the west ravine.

Please let me know if you have any questions, comments or concerns.

Sincerely,


Judith E. Joyce, PWS & Geologist

Item	Comment
General statement of overall condition of the site	Native vegetation and trees/shrubs are doing well.
Summary of the vegetation maintenance performed during the quarter	Minor adjustments to cages and soil tubes and some trash removed. Spraying of Burr Dock.
Summary of the tree/shrub status	100% survival of trees and shrubs and no winter damage noted. No vegetation needs to be removed around the base at this time, but we will monitor. Mulch depth and condition is adequate. Mulch needed around trees/shrubs at West Ravine in the Spring
Summary of any areas of concern such as erosion, damage, areas of disturbance, ongoing pest issues	Some minor erosion was noted on a site visit 2017-05-11. Water upstream was diverted and sod was installed along the slope.
Recommended Action Items: Such as tree replacement, recommended repairs, vegetation maintenance, reseeding and/or other required maintenance as needed.	Vegetation is schedule to be mowed in late September. Burdock, noted along eastern edge near pine trees, is scheduled to be removed/sprayed as needed.



Photo 1
7/20/2017
Photo looking north at east ravine. Vegetation was dominated by black eyed Susan (yellow bloom) during first growing season.



Photo 2
5/30/2017
Photo of the east ravine. Sod grass placed along southeastern edge (left of photo).



Photo 3
9/11/2017
Photo looking south along the west ravine. Shrubs are all still viable. Turf grass has established along the slope.