

iCAP Team Recommendation

Name of iCAP Team: [Land and Water](#)

iCAP Team Chair and Vice-Chair: [Carmen Ugarte and Jonathon Mosley](#)

Date submitted to iWG: [4/10/23](#)

Recommendation title: [Permeable Paver Maintenance at Lot C9 \(LW006\)](#)

For internal use only: Date reviewed by iCAP Working Group:

Specific actions/policy recommendation:

[The Land & Water iCAP team recommends that the permeable asphalt in parking lot C9 be vacuumed. An industrial vacuum truck will be required to power wash and vacuum the clogged particulate matter that has accumulated over time.](#)

Suggested unit/department to address implementation:

[Parking.](#)

Rationale for recommendation:

[The permeable system at this lot was constructed in 2012 and has never been vacuumed since. It is recommended that permeable lots are cleaned twice a year. In cleaning up this lot, the functioning of the system will be restored to its original efficiency.](#)

Connection to iCAP goals:

[This recommendation addresses the 4.2 iCAP objective, Implement the Resilient Landscape Strategy recommendations by FY24, concerning the need to maintain and preserve campus landscapes. The permeable pavers structures in Lot C9 aid in preventing flooding due to excessive rainfall, assisting in heavy foot traffic areas, while ensuring cleaner and ample water is directed back into the soil. Given their significance in water management on campus structures and landscapes, regular cleaning of the lot is imperative to upholding the integrity and efficacy of this system. This will not only prove to be more cost efficient in the long term, but will also ensure that we are able to sustain our iCAP objectives and impact on campus sustainability.](#)

Perceived challenges:

During the time of maintenance, Lot C9 will be unavailable to vehicles as a parking space. Redirecting users to temporary parking spots may resolve this issue. Coordinating timing of cleaning with users of Lot C9 is crucial. Permeable pavement void spaces eventually fill with debris. Lot C9 has functioned without cleaning since 2012, but not effectively. For best efficiency, maintenance will *ideally* have to occur again every year or two.

Anticipated timeline of implementation:

Completing this paver maintenance in the summer is ideal. This project is anticipated to take 2 hours at the maximum with a team of 8 people.

Anticipated budget (identify if cost is up-front or continuous):

We have identified potential vacuum services in the area, and will pursue these contacts further down the line.

Our cost estimate is 1-2,000 dollars to complete this service, based on the team's industry knowledge.

Individual comments are required from each SWATeam member (one or two sentences):

Team Member Name	Team Member's Comments
Carmen Ugarte	I support this recommendation to help maintain the efficiency of green stormwater infrastructure.
Jonathon Mosley	I support this project as cleaning this area will allow for this type of asphalt to function as it was originally intended to do so.
Brent Lewis	C9 is a fantastic example of our willingness to utilize green stormwater infrastructure here on campus. Since its inception, it has diligently percolated rainwater which would have otherwise added to localized flooding. At this point, it is time to restore the infiltration rates and keep it properly functioning. I support this recommendation.
Mickey Castigador	I support this recommendation because vacuuming the permeable space provides great benefits for its cost and effort.

Therese Egner	I support this recommendation to increase green stormwater infrastructure goals on campus.
Kavya Mula	I support this recommendation as it is crucial in maintaining and preserving our infrastructure and progress towards our green infrastructure goals
Betsy Liggett	Maintaining green stormwater infrastructure is key to proper functionality. I support this recommendation and it's alignment with the University iCAP green stormwater infrastructure goals.
Nikki Palella	I support this recommendation because it will restore the pavement's ability to capture water to its prime efficiency.
Maria Chu	I support the recommendation. Keeping the surface clean will prevent build up of sediment that can potentially flow to storm drain.
Emily Heaton	I support this recommendation.

Further explanation and background (can be supplied in an attachment):

Comments from consultation group (if any; these can be anonymous):