GRESHAM



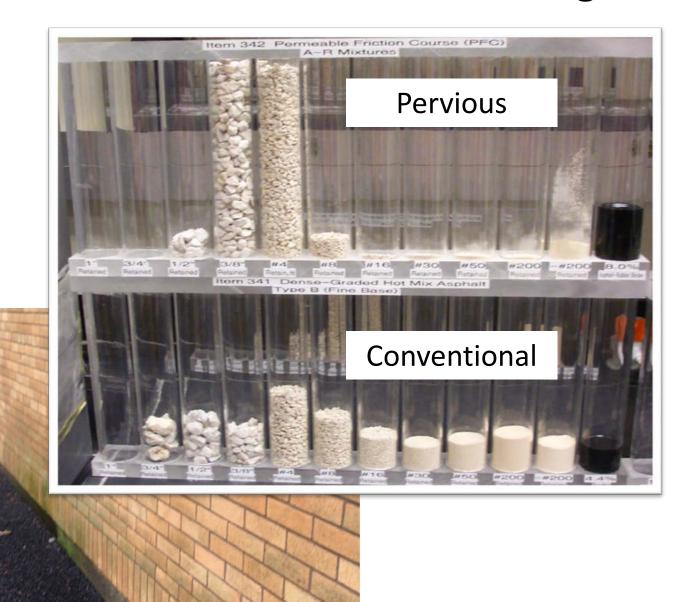
Pervious Pavement Pollutant Study



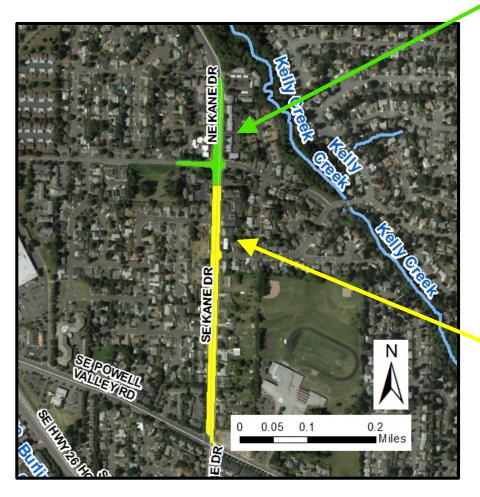
Katie Holzer & Torrey Lindbo
Katie.Holzer@GreshamOregon.gov
Lower Willamette River Toxics Reduction Meeting
31 January, 2018

Pervious Pavement – Allows water to run through it

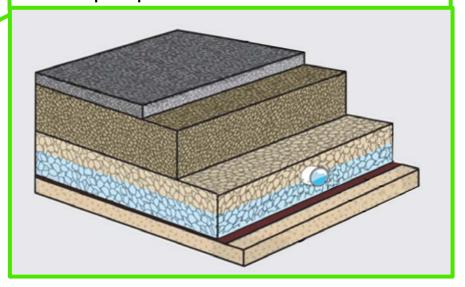
- Good for infiltration
- What about water quality?



Pilot Project



Full-depth pervious with underdrain

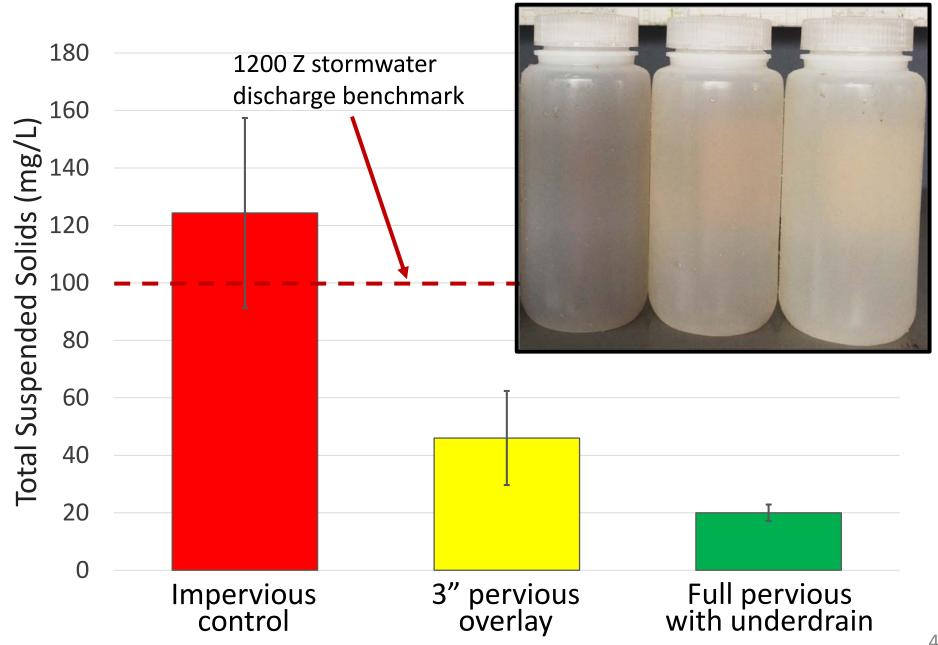


- Water quality samples during storms
 - With control (conventional impervious)
- Other observations
 - Spray, noise, potholes

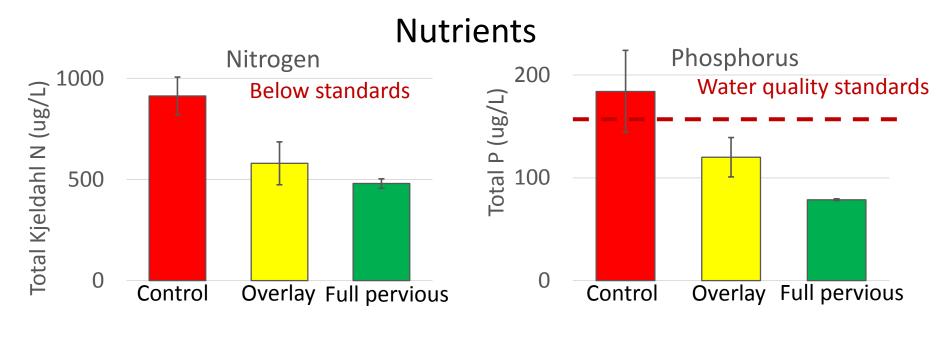




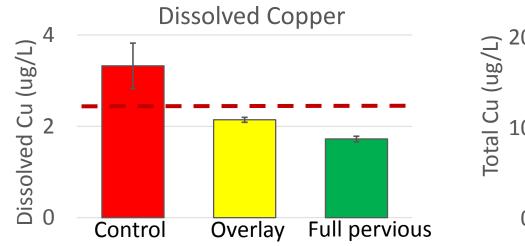
Sediment

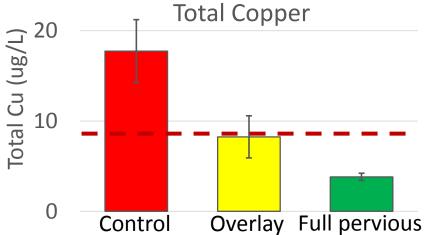


Similar Trends with Other Pollutants: Examples









Other Benefits



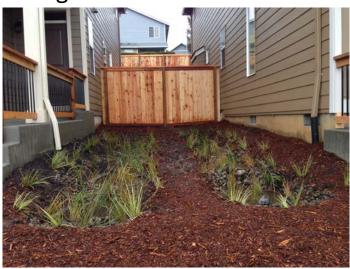
Reduction in:

- Road spray
- Traffic noise during storms
- Potholes and cracks

Other Stormwater Best Management Practices (BMPs)



Rain gardens



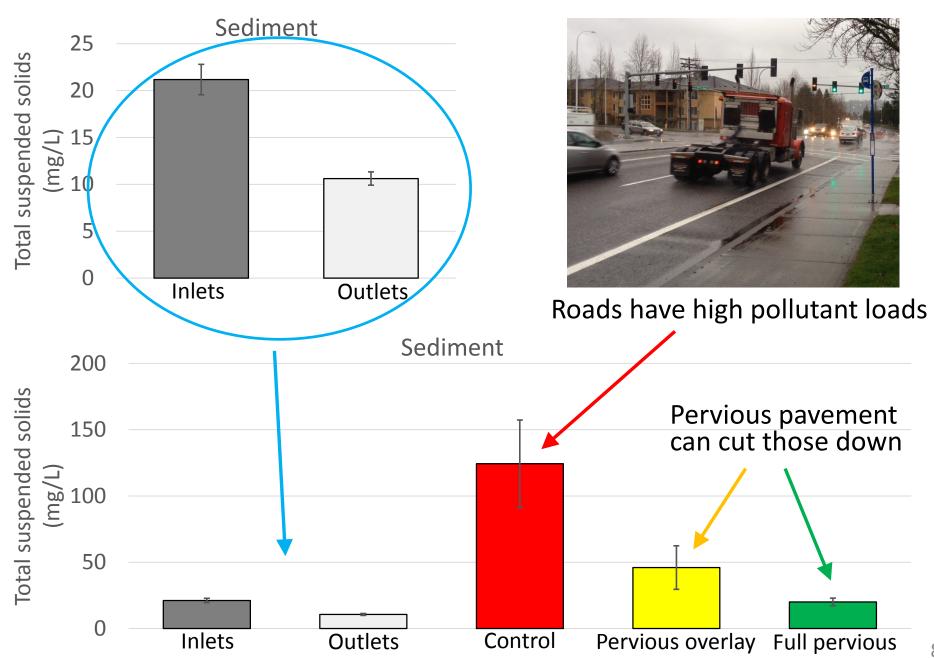
Planters



Ponds



Where Pervious Pavement Fits In



Conclusions

- Pervious pavement improved water quality arterial road runoff
 - Slowly draining soils
 - Underdrain and 3" overlay (can be an easy retrofit when resurfacing)
- It also reduced other nuisances
 - Spray, noise, potholes
- Important tool for improving water quality of urban streams



