The DWRC UD WATER Program: Silver Brook Watershed Plan

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Results

Figure 1. Possible Silver Brook stream corridor through STAR campus.

Figure 2. City of Newark proposed plan for stormwater park on the site of Rodney Dorms.

Figure 3. Proposed landscape of daylighting.

Figure 4. The Silver Brook storm watershed with flooding during a 10-year storm with the size of the red highlight corresponding to the number of nodes that are flooded.

Figure 5. The Silver Brook storm watershed with a proposed stormwater park (blue), enlarged pipes (orange), and daylighted stream (green) on the STAR campus. Flooding areas for a 10-year storm are highlighted in red.

Figure 6. Norma Brasure (left) and Gemma Antoniewicz (right) observing the low flow and high flow drainage system at STAR campus.

Figure 7. Hours of flooding during 10-year storm event in the Silver Brook storm watershed.

Figure 8. Total volume of runoff and flood volume from the 15 subcatchments within Silver Brook storm watershed for various flood events.

Figure 9. Flood volume for the SWMM model in the Silver Brook storm watershed.

Conclusions

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