

Darby Creek Bank Stabilization and Rock Vane Installation

Darby, Pennsylvania



Geomorphic stability, habitat and biodiversity were restored to a degraded stream while also protecting critical infrastructure.

Biohabitats assisted The Delaware Riverkeeper Network by developing a stream bank stabilization plan, specifications and a cost estimate, along with providing construction oversight services for bank protection along a 200-linear foot reach of Darby Creek. After performing a site reconnaissance of the study reach and floodplain. Biohabitats prepared design drawings and specifications which included in-stream structures such as rock vane, rock cross vanes and rock W-vanes. Biohabitats coordinated construction activities with the Delaware Riverkeeper Network and the Darby Creek Sewer Authority

and provided construction oversight for installation of the project. To divert flow around the work area, large sand bags were set in place so that base flow was directed to the other side of the channel. This enabled construction of about $\frac{3}{4}$ of the W weir. The sand bags were then relocated to the other side to allow completion of the work on the other bank.

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- Design
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conservation planning
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