

**DC Water Quality Improvement Grant Program Recipients Construction Projects
(2003 to 2012)
Originally known as the Streambank Stabilization Program (2000 to 2002)**

2003 Water Quality Improvement Grant Program (5 recipients)

Village of Villa Park Police Department Green Roof Project

Total Project costs \$281,000; Twenty percent county grant reimbursement \$56,200

The Villa Park Police station constructed a 3,000 square foot green roof, a 6,400 square foot bioswale for underground storage in an existing parking lot of the new police station constructed in 2004. 10,000 square feet of permeable pavers in the adjoining parking lot was also included in the improvements. The project addressed pollutant loadings and stormwater runoff within Salt Creek. The bioswales and permeable paver's demonstrated infiltration based stormwater management practices to address non point source pollution in an urban area. The bioswales were composed of a depressional lined area with an amended organic topsoil to increase permeability. The runoff management system was designed to restore predevelopment hydrologic conditions and assist with meeting water quality standards in the Salt Creek watershed.

Village of Glendale Heights Armitage Ditch – stabilize 1,800 feet between Winthrop and Armitage Avenue, by utilizing bioengineering techniques for stabilizing the streambanks and enhancing the riparian environment.

Willoway Brook Stabilization Project Morton Arboretum – The Morton Arboretum improved 900 feet of bioengineering bank stabilization techniques as well as improving riparian and in stream habitats throughout the corridor.

Hobson Creek Community Council Streambank Stabilization Phase I – Project includes 850 feet of mainstem Hobson Creek channel improvements in Naperville, 100 feet of sub-tributary creek channel, and 1.61 acres of streamside riparian area by utilizing bioengineering techniques for stabilizing the streambanks.

Oakwood Homeowners Association – Lake Charles Shoreline Stabilization Phase I – Project included 150 feet of eroded shoreline improvements around Lake Charles in Westmont. The Association utilized volunteers to plant native submergent, emergent and shoreline plants to stabilize the shoreline that will promote water quality through filtration.

2004 Water Quality Improvement Grant Program (5 recipients)

Village of Hinsdale Flagg Creek/Charleston Road Ditch Improvement

Total Project Costs \$141,600; County twenty percent reimbursement \$28,320

Replacement of 400 lineal feet of ditch with wetlands and riparian buffers to stabilize severely eroded banks.

Village of Downers Grove Lacey Creek Stream Corridor Phase III Restoration Project
Total Construction Costs \$104,730; County twenty percent reimbursement \$20,946
Project includes the installation of native vegetation and utilization of bioengineering in problem areas for streambank stabilization. Phases I and II were previously funded by the County as well.

Hobson Creek Streambank Stabilization Phase II
Total Project Costs \$95,616; County twenty percent reimbursement \$19,123
Streambank stabilization project includes 850 feet of mainstem channel improvements, 100 feet of sub-tributary creek channel, and 1.61 acres of streamside riparian area using bioengineering techniques to reduce pollutants of concern in the watershed and to improve riparian and in-stream habitats. Phase I was funded by the county in 2004.

Oakwood Homeowners Association - Lake Charles Shoreline Stabilization Phase II
Total Project Costs \$2,000; County Reimbursement \$400
Improvements include restoration of 150 feet of eroding shoreline using volunteers to plant native shoreline plants to promote water quality via filtration. The site is located in Westmont.

DuPage County Forest Preserve Spring Brook #2 Stream Meandering Project Phase I
Project Cost \$750,000; County reimbursement (20%) \$150,000
Project involved the remeandering and relocation of 1.5 miles in Springbrook Prairie Forest Preserve to restore hydrology that will reduce flooding and stabilize the severely eroding streambank for in stream and riparian enhancements that will reduce pollutants and improve habitat for flora and fauna.

2005 Water Quality Improvement Grant Program (7 recipients)

City of Darien Wards Creek Streambank Stabilization Project
County reimbursement \$36,067
The project includes use of bioengineering techniques to stabilize and regrade the banks of a 1,800 foot residential stretch of Wards Creek for erosion control, canopy clearing to allow light to reach the streambanks for increased native plant growth, and extended riffle installation. Site is located between Creekside Drive and 86th Street in Brookridge Subdivision.

Village of Westmont Muddy Waters Pond Shoreline Stabilization Project
County reimbursement \$30,300
Project located at the SWC intersection of 63rd and Williams Street. Muddy Waters Pond shoreline was restored and wetland zones were created using bioengineering techniques to reduced erosion and non-point source pollution from draining into St. Joseph's Creek.

Walnut Oaks Homeowners Network – Spring Brook Remediation Project
County Reimbursement \$50,000

Project includes the remeandering of 1,455 foot of eroded channel, riparian wetland creation, and stormwater BMPs along Spring Brook downstream from Walnut Drive in Roselle.

Oakwood Homeowners Association (Westmont) Lake Charles Shoreline Stabilization Phase III Project

County Reimbursement \$400

Site is located north of Ogden Avenue and west of IL. Rt. 83. The county previously funded Phases 1 & 2 of this project. Phase III includes replacement of invasive and non-native species with native submergent and emergent species along 100 feet of eastern shoreline of the Oakwood Subdivision retention pond. The pond was originally constructed in 1972 and has undergone various restoration stages since 1997.

Downers Grove Park District Lyman Woods Streambank Stabilization Project Phase I

County Reimbursement \$91,500

Site is located at the corner of 31st Street and Highland Avenue. A mile of tributary stretches along Lacey Creek was stabilized with soil bioengineering and streambank stabilization techniques. Old drain tiles were disabled and biofiltration ponds were created. The site plan was to be completed over a two year period by the Park District.

Hobson Creek Community Council in Naperville Corridor Restoration Project Phase III

County funding recommendation \$26,341

Phase III of the restoration project included the restoration of 250 feet of eroded streambank and degraded riparian corridor at Green Trail Drive and the Hobson Creek Inlet Channel along the East Branch DuPage River. Stabilization practices included installation of rock riffle grade control structure and bioengineering practices and replacement of non-native and invasive species with native species in the riparian corridor.

Brook Forest Community Association Ginger Creek Streambank Stabilization Project in Oak Brook

County reimbursement \$35,287

Site is located along Midwest Road, Oak Brook Road, I-88, and Illinois Route 83. 800 feet of shoreline will be stabilized and a 300 ft. wide buffer riparian zone will be installed. Deep rooted native species will be planted. Streambank Stabilization measures include slope regrading and/or replacement, toe protection and reseeding as necessary.

2006 Water Quality Improvement Grant Program (4 recipients)

Advocate Health & Hospitals Corporation/Good Samaritan BMP (rain garden, bioswale in surgery expansion center and permeable pavers in Prawius Parking lot)

Total project costs \$950,000; Twenty percent county reimbursement \$190,000

Advocate Hospital was awarded a grant in the amount of \$190,000 in 2006, but unfortunately was not able to utilize our grant due to a lack of securing additional funding

for the construction. Their contract was closed out at the end of their contract term on Nov. 30, 2011 and the \$190,000 funds went back to the stormwater general funds.

Marion Vicicondi (private homeowner in Glen Ellyn at 487 South Park Boulevard)
Streambank Stabilization project

Total project costs \$14,230.50; County reimbursement \$1,520

100 feet of streambank stabilization along Glen Crest Creek for a 6-acre parcel in Glen Ellyn with coir fiber rolls, soil lifts and riparian plantings.

Village of Downers Grove Park District Lyman Woods Streambank Stabilization Phase II

Total project costs \$1,340,034; County reimbursement (approx. 6.8%) \$91,500

Streambank Stabilization and riparian restoration project within 37-acre Lyman Woods. The county provided funding the previous year in 2005 for Phase I as well.

DuPage County Forest Preserve Spring Brook #2 Stream Meandering Project Phase II

Total project costs \$1,500,000; County reimbursement (approx. 10%) \$150,000

Urban stream restoration project for the remeandering of 1.5 miles of Spring Brook #2 through the Springbrook Prairie Forest Preserve.

2007 Water Quality Improvement Grant Program (4 recipients)

Stratford Green Condominium Association Willowbrook Streambank Restoration

Total project costs 10,500; Twenty percent county reimbursement \$2,100

Project includes the cleanup of West Creek along the western edge of the Condominium Association property and maintenance of the portion of Sawmill Creek that is on their property. The scope of work includes the removal of overgrown foliage in or along the creek to minimize erosion, removal of debris items on the creek floor to minimize obstructions, and natural plantings to help stabilize the creek banks and slowing down the erosion. The property is located at 9 South 200 Lake Drive.

Addison Public Library Green Roof Project

Total project cost \$100,750; Twenty percent county reimbursement \$20,150

A (5,300) square foot four ft. deep extensive green roof was installed on top of the newly constructed 54,000 square foot Addison Public library on the municipal campus at Friendship Plaza Drive. The project is designed to reduce the volume of stormwater and associated pollutant loads from the amount typically running off an impervious rooftop.

Elmhurst College Permeable Paver Parking lot Detention and Green Residence Hall

Total project cost \$23,678,766; Twenty percent county reimbursement \$116,525

Elmhurst College, located at 190 Prospect Avenue redeveloped their campus, constructing a green building energy efficient LEED residence hall and a 2 acre permeable paver parking lot adjacent to the new residence hall. The permeable paver parking lot in conjunction with the bioswales, native landscaping, rain gardens, runnels to move overflow rainwater above ground, and cisterns to capture and recycle the rainwater will work in tandem to improve the water quality, reduce runoff on site and provide an open laboratory for the students to conduct water quality analysis and research. The

pollutant removals and runoff reductions on site benefits the downstream portion of the Salt Creek watershed. The College plans on using the school grounds as a living laboratory, where students will have their educational experience increased by the campus's natural landscape and existing arboretum. The BMP's of this project will be displayed as an environmental showcase with the use of signage, project and monitoring displays.

City of Oakbrook Terrace Spring Road Tributary Sediment Erosion Control Streambank Stabilization

Total Project Costs \$213,200; Twenty percent county reimbursement \$42,640

The project includes a series of small remediations along the Spring Road Tributary to improve water quality at Salt Creek. The Rehabilitation includes bank stabilization, storm sewer outfall repair, removal of sediment and debris and landscape restoration using native grasses and shrubs.

2008 Water Quality Improvement Grant Program (3 recipients)

City of Warrenville - Warrenville Road Permeable Paver Reconstruction
Phase II and III

Total project costs \$2,878,190; twenty percent county reimbursement \$56,175

Amount invoiced before contract expired \$37,998.07. There was a remaining balance of \$18,176.93 that not invoiced prior to the contract termination. These funds went back into the general funds.

The City of Warrenville reconstructed 0.6 miles of Warrenville Road using a permeable paver surface. The project involved the construction of Phase II and III of a three-phased roadway reconstruction enhancement project using a permeable brick surface. The proposed work began near the intersection of Warrenville Road and the Illinois Prairie Path, and will extend approximately 0.6 miles east to Curtis Ave. Phase I, which was not funded by this grant included approximately 0.4 miles of permeable brick pavers from Curtis Avenue to Behrs Circle Drive.

The proposed scope of work involved the removal and excavation of existing asphalt and subgrade material. The existing infrastructure such as the stormwater pipe(s), and utilities were relocated, repaired or replaced as necessary. Stone aggregate was back-filled and leveled. Concrete edging was installed for paver support and the permeable pavers were installed to meet final grade. The project directly benefited the West Branch DuPage River by reducing runoff rate and volume into the watershed and minimizing the potential causes and sources of water quality impairments. The permeable paver road construction will reduce the runoff rate by increasing the travel time it takes for runoff to reach stormwater management facilities and drainage structures. Runoff volume will be reduced by providing opportunities for runoff to infiltrate the permeable underlying soil beneath the permeable brick surface.

Denise Sandoval (City of Naperville private homeowner) construction of porous front walkway located at 30W 145 Allister Lane.

Total project cost \$2,781; twenty percent county reimbursement \$556

Darien Public School District 61 Lace Elementary School Green Roof Project

Total Project Costs \$450,769; twenty percent county reimbursement \$90,154

Darien Public School's constructed a partial 3,000 square foot extensive green roof and rain garden at the Lace Elementary School property in the Darien School District 61 located at 7414 South Cass Avenue in Darien. The Elementary School is located on the corner of 75th Street and South Cass Avenue. District 61 lies within the DuPage River watershed, which crosses approximately 372 square miles in northeast Illinois and includes major portions of DuPage County. Wight and Company completed the engineering and architectural design for the Green Roof, Intrinsic Landscaping provided the materials for the green roof and HydroTech completed the construction of the partial green roof.

2009 Water Quality Improvement Grant Program (6 recipients)

Wheaton Park District Northside Park Lagoon Renovation

Total Project costs: \$645,187.50; Twenty percent county reimbursement: \$129,037.50

The Northside Park Lagoon improvements are located within the Winfield Creek Tributary West Branch Watershed. The scope of work includes shoreline grading and buffer establishment, sediment bay excavation, storm sewer day lighting, septic field removal, and lagoon aeration.

Bloomington Township Natural Habitat Restoration

Total Project costs: \$233,404; Twenty percent county reimbursement: \$46,680.00

Project improvements include a 3.5 acre natural habitat restoration at the intersection of Lake and Rosedale Road to restore a degraded wetland and riparian areas within Salt Creek Watershed with native plantings and soil stabilizing vegetation. Three years of maintenance and monitoring to be included after construction is complete.

Arthur Goldner and Associates, Inc. St. George Retail Center Detention Pond Retrofit

Total Project costs: \$304,736.92; Twenty percent county reimbursement: \$60,947.38

Restoration of a silty eroded poorly drained on line detention pond out letting into the West Branch Cress Creek tributary located in the St. George Retail Center at the intersection of Ogden Avenue and Royal St. George Drive in Naperville. The upper pond will be retrofitted with native plants, installation of a forebay to remove heavy siltation, reconstruction and remeandering of the channel and use of a structural BMP such as a stormceptor. Maintenance and monitoring plan will be initiated as well.

Glen Ellyn Rain Tree Condominium Association Detention Pond Shoreline Restoration

Total Project Costs: \$18,139; Twenty percent county reimbursement: \$3,627.80

Restoration includes detention pond shoreline stabilization measures along the side slope of a 0.85 acre pond with native plantings. The parcel is located at 310 Greenbriar Road.

Hubble Middle School District 200 BMP Project (permeable paver parking lot, bioswales, green roof, naturalized detention basin and depressional area

Total Project Costs \$745,318.67, twenty percent county reimbursement \$60,947.38

The School District 200 constructed a permeable paver parking lot, two bioswales (one in each parking lot), a large naturalized detention basin, naturalized depressional areas between the two buildings and a green roof at their new middle school. Hubble Middle School is located South of Galusha Avenue and west of Herrick Road in the City of Warrenville. The site is located within the West Branch of the DuPage River watershed. This construction project was permitted prior to the Best Management Practice (BMP) Ordinance requirements were enacted and therefore the current BMP Ordinance permit requirements for new construction do not apply to this project. A Unilock Eco-Optiloc permeable paver parking lot was installed on northern parking lot. The “L” shape design of the Eco-Optiloc permeable pavers creates small voids between the pavers allowing stormwater runoff to drain into the sub-base. The primary benefits of the permeable paver parking lot are stormwater infiltration, groundwater recharge, pollutant removal, and runoff reduction. The permeable paver lot in combination with the bioswale in the center of the parking lot also has the capability to reduce the following pollutants; total suspended solids (TSS), phosphorus, phosphate, nitrite, nitrate, metals, biochemical oxygen demand (BOD), and ammonia. The two bioswales will be located at the center of the northern permeable paver parking lot and along the east side of the southern asphalt parking lot. Curb and gutter will surround both bioswales. Stormwater runoff will enter the bioswales through curb cuts. The bioswales will reduce the amount of storm sewer inlets and piping that would be required otherwise. The main benefits of the proposed bioswales are runoff and velocity reduction, pollutant removal, stormwater infiltration, and ground water recharge. The naturalized detention basin was comprised of shortgrass prairie and wet meadow seed mix has the ability to remove several urban pollutants including TSS, nutrients, and trace metals through filtration, absorption, microbial transformation, and sedimentation. A naturalized depressional area is proposed between the two middle school buildings. The final BMP to be incorporated on site is a green roof on a portion of the northern building. A LiveRoof pre-vegetated modular green roof system will be utilized. The pre-vegetated modules are installed with mature green plants grown to 1 inch above the module. This particular green roof product can reduce runoff by up to 95 percent after a 1-inch rainfall event. Students will have access to the green roof directly from the library to observe and study the effects of this water quality improvement and green design and to enjoy the natural environment during lunch or study hall. The biology and social science students have had opportunities over the past several years to learn and examine the green roof at their first hand through class room exercises and extracurricular ecology club activities.

Village of Glen Ellyn Lake Ellyn outlet structure rehabilitation channel stabilization

Total Project Costs: \$110,490; Twenty percent county reimbursement \$22,098

Project includes the restoration of the impaired channel and outlet with streambank stabilization practices such as regarding, erosion control, geo grids, coir fiber rolls, and emergent plantings. The site is located at 725 Rifford Road at Lake Ellyn.

2010 Water Quality Improvement Grant Program (6 recipients)

Naperville Heritage Society/Naper Settlement Outdoor History Museum

Total Project Costs: \$1,089,021; Approximately sixteen percent county reimbursement \$173,899.64

Site is located at 523 S. Webster Street in Naperville (project includes permeable pavers in walkway and parking lot, bioswale, infiltration zones, rain gardens, cistern, educational signage).

Cantigny Streambank Stabilization Project

Total Project Costs: \$456,619.74; County twenty percent reimbursement \$91,323.95

Project includes 3,640 feet of streambank stabilization along an unnamed tributary to Winfield Creek in the West Branch that runs through the Cantigny Golf Course. The stabilization improvements begin near the Cantigny Golf and Cantigny Park extending 3000 feet east to Shaffner Road.

Unincorporated Burr Ridge Michael Stratis Intrepid Properties, Inc. Streambank Stabilization located at 15W506 63rd Street

Total Project Costs: \$39,645.79; County twenty percent reimbursement \$7,929.16

Streambank stabilization improvements along 260 foot of an eroded ditch at 63rd Street with native deep rooted vegetation, wetland and riparian area enhancements, coir fiber rolls and vegetated rock toes for side slope protection. The ditch is tributary to Flag Creek in the Des Plaines River.

Village of Downers Grove Fire Station Number Three Bioswale/Rain Garden Project

Total Project Costs: \$113,403.25; County twenty percent reimbursement \$22,680.65

Project includes removal of a 40 foot wide by 215 foot long asphalt strip and replacement with 175 foot long bioswale with a 4 inch perforated underdrain and 1000 square foot rain garden with native plant installation.

Village of Villa Park Community Rain Garden Monterey Avenue Ditch Project

Total Project Costs: \$16,808; County twenty percent reimbursement \$3,361.60

Five rain gardens will be installed along the 600 block of Monterey Avenue out letting into the Sugar Creek Tributary in Salt Creek. Native plants were utilized throughout the rain gardens.

Marion Vicicondi in Glen Ellyn Streambank Stabilization Project (private homeowner previous 2006 grant recipient) additional \$805 funding awarded in 2010 due to underestimating of project costs. This project was initially awarded \$1,520 funding in 2006.

2011 Water Quality Improvement Grant Program (4 recipients)

Carol Stream Park District Recreation Center Permeable Pavers Parking lot located at the intersection of Gary Avenue and Fountain View Drive

Total Project Costs: \$585,667; County twenty percent reimbursement \$117,133.40

Seton Montessori School in Clarendon Hills, permeable pavers installed along the entrance driveway and turnaround drop off circle. Montessori School located at 5717 South Western Avenue.

Total Project Costs: \$93,030.00; County twenty percent reimbursement \$18,606

Naperville Park District Restoration (Pioneer Park Wetland Restoration /Seager Park Permeable Paver and Native Plantings installation)

Total Project Costs: \$1,089,021; Approx. sixteen percent county reimbursement \$173,899.64

Project improvements include a (5.98 acre) wetland habitat restoration area at Pioneer Park in combination with the installation of a (26,493 square foot) permeable paver parking lot and a (0.69 acre) wetland native plantings with vegetated filter strips in Seager Park will be installed in the dry detention basin. The wetland restoration at Pioneer Park will stabilize 1,200 feet of shoreline along the west bank of the West Branch. Pioneer Park is located at 1212 South Washington Street and Seager Park is located at 1163 Plank Road in Naperville.

DuPage County Facilities Management Child Advocacy and Neutral Exchange Center

Total Project Costs: \$295,253.00; Twenty percent county reimbursement \$59,050.60

Green Infrastructure Project includes permeable pavers, rain gardens, infiltration zones, and native landscape restoration (building will be located next to the Convalescent Center new construction to begin in 2012 or 2013).

2012 Water Quality Improvement Grant Program (3 recipients)

Woodridge School District 68 (Sipley, Edgewood and Willow Creek) permeable paver and rain garden Project

Total Construction Costs: \$1,295,250; County 6.5% reimbursement \$84,191.25

Project involves the installation of permeable pavers and rain gardens at three existing school sites in Woodridge specifically Edgewood, John L. Sipley and Willow Creek Elementary Schools. A total of 140,000 square feet of existing asphalt parking lots will be retrofitted with permeable pavers and 25,000 square feet of rain gardens and filter strips with native plants will be installed.

North Central College (Sesquicentennial Walkway) and permeable paver parking lot

Total Construction Costs: \$594,440; County twenty percent reimbursement \$118,800

The existing North Central College Sesquicentennial pedestrian walkway will be retrofitted with permeable pavers and an existing asphalt parking lot will also be retrofitted. The walkway improvements will include the removal of 750 foot long by 13

foot wide asphalt alley and replacement with 16 foot wide permeable pavers. The 8,600 square foot adjacent parking lot will be removed and replaced with permeable pavers.

Consolidated School District 93 various BMP Projects (two school locations)
Western Trails School in Carol Stream and Early Childhood Center in Bloomingdale

Total Construction Costs Western Trails School \$600,600

County reimbursement (4.5%) \$27,027

Total Construction Costs Early Childhood Center \$465,720

County reimbursement (20%) \$93,144

Project includes the retrofitted of two sites; a (0.5 acre) existing asphalt parking lot will be reconstructed with 34,090 square feet of permeable pavers at Western Trails School in Carol Stream in combination with a proposed vegetated bioswale. A permeable paver parking lot and water quality control structure at the Early Childhood Center in Bloomingdale will also be constructed.