Committee Report

Business Item No. 2019-267

Environment Committee

For the Metropolitan Council meeting of October 9, 2019

Subject: 2019 Stormwater Grant Funding Recommendations

Proposed Action

That the Metropolitan Council authorize its Regional Administrator to award and execute the stormwater management grants recommended in Attachment A in the total amount of $500,000.

Summary of Committee Discussion/Questions

Staff clarified the funding was based on a ranking process and availability of funds. Applications were reviewed and scored by a six- member internal/external panel using criteria posted with the application materials. The three highest scoring applications were recommended for full funding, with the next four recommended for partial funding based on their total point scores.

METROPOLITAN COUNCIL

Environment Committee

Meeting date: September 24, 2019

For the Metropolitan Council meeting of October 9, 2019

Subject: 2019 Stormwater Grant Funding Recommendations

District(s), Member(s): All

Policy/Legal Reference: Total Watershed Management (Minn. Stat. § 473.505)

Staff Prepared/Presented: Joe Mulcahy, 651-602-1104

Division/Department: MCES c/o Leisa Thompson, 651-602-8101

Proposed Action

That the Metropolitan Council authorize its Regional Administrator to award and execute the stormwater management grants recommended in Attachment A in the total amount of $500,000.

Background

MCES received fifteen grant applications requesting a total of $1,063,369. Applications were reviewed and ranked by an internal and external panel. The rankings were reviewed by Environmental Services managers and a final recommendation for funding was produced.

The three highest scoring applications are recommended for full funding; the next four highest are recommended for partial funding. This recommendation is summarized in Attachment A.

Rationale

Many parts of the Metropolitan Area were developed before stormwater treatment was required. Often the only opportunity to add stormwater treatment in these places is when properties are redeveloped, but these retrofits are frequently difficult due to site constraints. These grants will help fund innovative projects to treat stormwater that could be replicated throughout the metro region. Projects funded by these grants will help to protect and improve receiving water quality in the region.

The grant applications recommended for funding are for redevelopment / retrofit projects that address untreated areas, support other Council objectives and can be replicated throughout the metro region.

If any applicant declines partial funding, or if detailed project budgets vary from preliminary estimates, resulting in unallocated funds staff may re-allocate those funds among recommended proposals or high ranking un-funded proposals.

Thrive Lens Analysis

This action supports the Thrive MSP 2040 stewardship and sustainability outcomes and the water sustainability goal of the Water Resources Policy Plan. Innovative stormwater treatment will protect and improve water quality in the region's lakes, streams, and rivers.

Funding

This action will be funded with $500,000 budgeted in the 2019 MCES operating budget as a targeted initiative from the Council's General Fund.

Known Support / Opposition

No known opposition.

2019 STORMWATER GRANT FUNDING RECOMMENDATIONS

Village Green Stormwater and Community Garden Improvements - Fridley $100,000
Recommended funding: $100,000
This project proposes to enhance a degraded and undersized stormwater infiltration basin in the Village Green Apartments, a Section 42 housing community at Bennett Drive and 7th Street in Fridley. Proposed enhancements to the infiltration basin include installation of a pre-treatment structure to trap incoming sediment and extend the life of the improvement, excavation below the outlet, modifying the outlet control structure, and installing a native plant buffer. These improvements were modeled to treat an additional 168 acre-ft per year, which would reduce phosphorus discharge into Rice Creek by 49.5 pounds per year and TSS discharge by 16,400 pounds per year.

Stormwater Reuse for Downtown Centerville Redevelopment - Centerville $100,000
Recommended funding: $100,000
To treat runoff from redevelopment in downtown Centerville an existing stormwater reuse system will be expanded to include additional area in LaMotte Park, as well as Hidden Spring Park. Three additional spray heads ($75,000 total) will need to be added to LaMotte Park. A full traditional irrigation system will need to be added to Hidden Spring Park ($120,000).

Autumn Ridge Participatory Landscape Design, Installation - Brooklyn Park $73,787
Recommended funding: $73,787
Autumn Ridge Apartments is a 17 acre, 366-unit, highly impervious, affordable housing complex in Brooklyn Park owned by Sherman Associates. Project includes:

- 1 raingarden at NW entrance on Boone Avenue to capture garage roof runoff and diminish overflow of runoff into neighboring backyard: $19,493.75 (design complete, see attached)
- 1 raingarden behind building 4 to capture roof runoff and address severe flooding: $16,889.17 (design complete, see attached)
- 5-8 raingardens throughout site interior to capture building downspouts, interior parking lot runoff and garage roof runoff: $32,000 (approx. $4,000 each, concept complete)
- Removal and replacement of 5-8 ash trees in strategic locations to enhance runoff capture: $12,000 (approx. $2,000 each)
- Construction administration, training and engagement: $15,000
- Educational signage development and installation: $3,000.

ECO Mosque - Hennepin County Public Works Department of Environment and Energy $100,000
Recommended funding: $75,000
Masjid An-Nur is a North Minneapolis-based mosque located along 18th and Lyndale Ave N, the Mosque is situated at a low point of the property, and rains over the last few years have caused flooding of one of the main entrances and surrounding areas along the building, impacting the interior of the building as well as the site, services and programming. Project goal is to install an adequate stormwater management system that includes a variety of methods to redirect the water from our building. Funding is requested for parts of 4 raingardens.

St Hubert Catholic School Stormwater Retrofit - RPBCWD $100,000

Recommended funding: $75,000

This project will retrofit a fully developed parcel of land located on St Hubert Catholic School. Three final potential project areas were identified:

1. Project Area 1: Main Parking Lot Tree Trenches. Estimated construction cost: $90,000
2. Project Area 2: Playground Improvements with Stormwater Storage. Cost: $110,00
3. Project Area 3: South Parking Lot & Recreation Area Improvements. Cost: $57,000

Hugo County Road 8 Trail Improvements & Stormwater Reuse - Hugo $100,000

Recommended funding: $50,000

The City is looking to reconstruct approximately 6000 square feet of trail along County Road 8 between Oneka Parkway N and Elmcrest Ave N. The City of Hugo will reconnect its existing irrigation system along County Road 8 (Frenchman Road) to reuse stormwater from an existing stormwater pond, resulting in improved surface water quality through phosphorus reduction, decreased groundwater demand, and volume reduction of stormwater to downstream ditch systems and Peltier Lake.

Brooklyn Center Workforce and Senior Affordable Apartments - Brooklyn Center $100,000

Recommended funding: $25,000

The proposed project will provide stormwater management for a development consisting of 127 one, two, and three-bedroom workforce housing units. The project also includes 143 one and two-bedroom senior housing units. The site is a vacant parcel of land previously used as a grocery store with a large surface parking lot. Currently there are no stormwater BMPs on the site to control stormwater. The proposed project exceeds the City and Watershed requirements for discharge rate leaving the site and volume control.

ALL 2019 STORMWATER GRANT APPLICATIONS RECEIVED

1. Brooklyn Center Workforce and Senior Affordable Apartments - Brooklyn Center $100,000
   The proposed project will provide stormwater management for a development consisting of 127 one, two, and three-bedroom workforce housing units. The project also includes 143 one and two-bedroom senior housing units. The site is a vacant parcel of land previously used as a grocery store with a large surface parking lot. Currently there are no stormwater BMPs on the site to control stormwater. The proposed project exceeds the City and Watershed requirements for discharge rate leaving the site and volume control.

2. 2020 Street Surface Improvement Project - Anoka $45,000
   Project would construct three rain gardens to treat approximately 1.5 to 10 acres of untreated residential area in conjunction with the city's 2020 Street Surface Improvement Project. Each garden would include surface pretreatment structures. Since the ultimate project will not increase impervious area by more than one acre, the project is exempt from stormwater management requirements.

3. Shakopee Downtown BMP - Lot A - Shakopee $100,000
   Project would install an underground infiltration system under the county's Parking Lot A in the Downtown Shakopee Subwatershed to provide treatment to stormwater prior to discharging to the Minnesota River. Project is planned for design and construction in 2020 to coordinate with improvements Scott County is making to Parking Lot A.

4. Community - based Raingarden Project - Nine Mile Creek WD $55,000
   Project will install four stormwater best management practices (BMPs) on three prioritized sites in the watershed that are owned by nonprofits: 1.Good Samaritan United Methodist Church (5730 Grove St, Edina, MN 55436): Raingarden, 2.The Church of St. Edward (9401 Nesbitt Ave S, Bloomington, MN 55437): Two Raingardens, 3.Oak Grove Presbyterian Church (2200 W Old Shakopee Rd, Bloomington, MN 55431): Raingarden.

5. Watertown Sump SAFL Baffle Retrofit - Carver County WMO $10,000
   Project would install sump manhole with SAFL baffle as part of a road mill and overlay project, replacing a storm sewer manhole with no existing treatment that discharges directly into the South Fork of the Crow River.

6. Village Center Revitalization Project - Marine on St. Croix $30,000
   The proposed Village Center improvements include reconstruction of the roadway and other pavement improvements plus the addition of curb and gutter and storm sewer in limited areas to move stormwater through the corridor. BMPs will include modification of an existing open ditch along Oak Street to a rain garden and a larger rain garden facility downstream of a main parking area. Additional drainage improvements include capture of significant overland flow from TH 95 in a storage basin and discharge through a smaller pipe for flood control.

7. Hugo County Road 8 Trail Improvements & Stormwater Reuse - Hugo $100,000
   The City is looking to reconstruct approximately 6000 square feet of trail along County Road 8 between Oneka Parkway N and Elmcrest Ave N. The City of Hugo will reconnect its existing irrigation system along County Road 8 (Frenchman Road) to reuse stormwater from an existing stormwater pond, resulting in improved surface water quality through phosphorus reduction,

decreased groundwater demand, and volume reduction of stormwater to downstream ditch systems and Peltier Lake.

8. Stormwater Reuse for Downtown Centerville Redevelopment - Centerville $100,000
   To treat runoff from redevelopment in downtown Centerville an existing stormwater reuse system will be expanded to include additional area in LaMotte Park, as well as Hidden Spring Park. Three additional spray heads ($75,000 total) will need to be added to LaMotte Park. A full traditional irrigation system will need to be added to Hidden Spring Park ($120,000).

9. Historic Ernst House Redevelopment - Chaska $30,000
   The City of Chaska is currently working on an infill redevelopment project to redevelop a blighted historic home into two rental units and add up to five additional units on a 0.38-acre site in the Downtown Chaska. proposes to install a 3,731 square foot parking lot to serve the redevelopment with 1,040 square feet of permeable pavers to be installed in the parking stall locations. While the redevelopment does not require stormwater treatment due to its acreage, the site is already serviced by a regional stormwater collection and treatment system, and the addition of permeable pavers will further exceed stormwater management standards.

10. St Hubert Catholic School Stormwater Retrofit - RPBCWD $100,000
    This project will retrofit a fully developed parcel of land located on St Hubert Catholic School. Three final potential project areas were identified:
    1. Project Area 1: Main Parking Lot Tree Trenches. Estimated construction cost: $90,000
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11. 15th & Hilo Water Quality Project - Oakdale $19,582
    The City proposes to dredge accumulated sediment from a stormwater pond and to alter its outlet in order to provide additional dead storage and increase the pond's stormwater pollutant removal efficiencies. Additionally, the channel that conveys flow from the pond east to a wetland complex has a significant amount of accumulated sediment which will be removed.

12. Autumn Ridge Participatory Landscape Design, Installation - Brooklyn Park $73,787
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13. ECO Mosque - Hennepin County Public Works Department of Environment and Energy $100,000
    Masjid An-Nur is a North Minneapolis-based mosque located along 18th and Lyndale Ave N, the Mosque is situated at a low point of the property, and rains over the last few years have caused flooding of one of the main entrances and surrounding areas along the building, impacting the interior of the building as well as the site, services and programming. Project goal is to install an adequate stormwater management system that includes a variety of methods to redirect the water from our building. Funding is requested for parts of 4 raingardens.

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15. United Farmer's Cooperative Storm Volume and Treatment Improvements - Waconia $100,000
    Conversion of gravel at United Farmer's Cooperative to improved concrete and asphalt surfaces, introduction of permeable surface and conversion of storm manhole to a sump structure. Currently, the storm manhole not containing a sump is inundated with sediment and requires annual cleaning from the large volumes of sediment drained into the structure. Conversion of the storm manhole with a sump will assist in reductions of Total Suspended Solids. In addition, we intend to capture water from .29 Ac. of additional gravel surface by means of installation Pave Drain with a surface area of 1,680 SF to assist in volume control before entering the same improved sump manhole by discharging the water through a 6" tile.