



COUNTY ADMINISTRATOR
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TO: Martha Kern, Chair
Ways & Means Committee

THROUGH: Robert E. Guenzel
County Administrator

FROM: Janis Bobrin, Drain Commissioner

DATE: September 19, 2001

SUBJECT: Malletts Creek Regional Detention

BOARD ACTION REQUESTED:

It is requested that the Board of Commissioners ratify the signature of the Administrator on the application to the Michigan Department of Environmental Quality to fund the re-design of Brown Park Pond, which will improve flow and reduce phosphorus pollution in Malletts Creek and the Huron River in the amount of \$263,851 for the period October 1, 2002 through September 30, 2004.

NOTE: This request is being submitted concurrently with a request to authorize the administrator to sign a \$2,791,481 grant application for the construction phase of this project.

BACKGROUND:

The Malletts Creekshed encompasses eleven square miles of land, located in southern Ann Arbor and northern Pittsfield Township. Land use in the creekshed is 79% urban, 0% agricultural, 4% forested, 3% wetland, and 14% shrub and grassland. The Creek is experiencing a range of water quality problems associated with urban creeksheds: flashy flows, nonpoint source nutrient pollution and chemical contamination, thermal impacts, excessive erosion and sedimentation, high bacteria levels, degraded habitat and poor biotic diversity.

This project proposes designing for the reconstruction of a five-acre detention facility (Brown Park Pond) to reduce phosphorus pollution – the 'primary pollutant of concern'. Malletts Creek, along with other tributaries in the Middle Huron basin, are targeted for 50% phosphorus reductions in order to meet state water quality standards.

This is the first request to the Board regarding this project. However, in 1998 the Board was asked to support the development of the Malletts Creek Restoration Plan. That comprehensive restoration study was completed in March of 2000 and included some twenty recommendations. Reconstruction of this facility was one of those recommendations. Funding to complete the design phase of this project is now available from Clean Water Act Section 319 funds administered by the DEQ.

DISCUSSION:

This request is to apply for Federal Clean Water Act Section 319 funding for the re-design of Brown Park Pond in the City of Ann Arbor. Brown Park is owned by the Malletts Creek Drainage District and leased to the City of Ann Arbor Parks and Recreation Department.

The pond was constructed in 1977 and provides floodplain stormwater detention and downstream flood relief during rain events and spring thaw. It has acted to trap a significant sediment load beneath the water surface over its 24-year lifespan. Phosphorus attached to these sediments has been sequestered in the process, thereby protecting downstream water quality. The pond's future usefulness to trap sediment and phosphorus is limited because the sediment level is now at or near the water surface.

The Malletts Creek Restoration Plan included hydrologic modeling to identify opportunities to improve water quality. The Plan indicates that reconstructing this pond would yield a 25% reduction in phosphorus for the entire Creekshed. The concept plan for reconstruction includes:

1. Installation of a sediment forebay
2. Increasing sediment storage capacity
3. Creating a water quality treatment wetland & vegetation plan
4. Redesigning the outlet structure
5. Long-term maintenance

The DEQ has targeted a 50% phosphorus reduction for all tributaries of the Huron River between Portage and Ford Lakes. This project would bring Malletts Creek half way to that goal.

A companion Clean Michigan Initiative state grant proposal has been submitted concurrently to assist in funding site design. (Clean Water Act Section 319 funds are limited to non-physical improvements (e.g. site design), while the Clean Michigan Initiative monies are designated for physical improvements (e.g. construction).

IMPACT ON HUMAN RESOURCES:

None

IMPACT ON BUDGET:

The estimated cost of the project is \$263,851. This includes:

Grant monies	Planning, Design & Public Involvement	\$195,000
	Indirect	\$557
	Subtotal	\$195,557
Local match	County Employee In-kind Staff & Fringe	\$6,210
	Non-county Employee In-kind Staff & Fringe	\$1,890
	Sampling & Monitoring (Drain Special Assessment)	\$5,000
	Planning, Design & Public Involve. (Drain Special Assessment)	\$55,000
	Indirect (in-kind match)	\$194
	Subtotal	\$68,294
	Total	\$263,851

IMPACT ON INDIRECT COSTS:

Indirect costs total \$751 (12.1% of County staff & fringe). The grant will fund a portion of indirect costs based on match percentage – \$557. The remainder of indirect costs is local in-kind match – \$194.

IMPACT ON OTHER COUNTY DEPARTMENTS OR OUTSIDE AGENCIES:

This project will benefit all land in the drainage district. The current apportionment of the district based on jurisdiction is:

Party	Percentage
City of Ann Arbor	74.54
Pittsfield Township	18.85
MDOT	05.62
County Roads	<u>00.99</u>
Total	100.00

The Huron River Watershed Council, the City of Ann Arbor and Pittsfield Township are partners in this project.

CONFORMITY TO COUNTY POLICIES:

Conforms to County policies.

ATTACHMENTS/APPENDICES:

County Budget
Grant Application

A RESOLUTION RATIFYING THE SIGNATURE OF THE ADMINISTRATOR ON APPLICATION ENTITLED SITE DESIGN FOR MALLETTS CREEK REGIONAL DETENTION TO THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY FOR THE CLEAN WATER ACT SECTION 319 PROGRAM, FOR THE DEPARTMENT OF THE DRAIN COMMISSIONER, IN THE AMOUNT OF \$263,851, FOR THE PERIOD OF OCTOBER 1, 2002 – SEPTEMBER 30, 2004; AUTHORIZING THE ADMINISTRATOR TO SIGN THE NOTICE OF GRANT AWARD; AMENDING THE BUDGET AND AUTHORIZING THE ADMINISTRATOR TO SIGN THE DELEGATE CONTRACTS

WASHTENAW COUNTY BOARD OF COMMISSIONERS

October 3, 2001

WHEREAS, the Office of the Drain Commissioner is seeking funding from the Michigan Department of Environmental Quality (DEQ) for \$263,851, for the period of October 1, 2002-September 30, 2004, and;

WHEREAS, grant funding will assist in the re-design of Brown Park Pond, a regional stormwater detention facility, and;

WHEREAS, re-construction would benefit approximately 9,000 landowners within the Malletts Creek Drainage District in the City of Ann Arbor and Pittsfield Township, and;

WHEREAS, the proposed project is a recommendation of both the Malletts Creek Restoration Plan completed by the Office of the Drain Commissioner in March, 2000 and the Watershed Plan for the Huron River in the Ann Arbor – Ypsilanti Metropolitan Area, 1994, and;

WHEREAS, stormwater modeling completed for the Malletts Creek Restoration Plan indicates that this project would reduce phosphorus loading from the Creekshed by 25% and contribute to the overall effort to meet DEQ water quality targets for the Middle Huron River basin, and;

WHEREAS, this matter has been reviewed by Corporation Counsel, the Finance Department, Human Resources, the County Administrator's Office and the Ways & Means Committee;

NOW THEREFORE BE IT RESOLVED that the Washtenaw County Board of Commissioners hereby ratifies the signature of the Administrator on the application for the Michigan Department of Environmental Quality grant proposal entitled Site Design for Malletts Creek Regional Detention in the amount of \$263,581 for the period of time of October 1, 2002 – September 30, 2004 for the Office of the Drain Commissioner, as on file with the County Clerk.

BE IT FURTHER RESOLVED that the Board of Commissioners takes the following actions contingent upon receipt of the grant award in conformity with this application:

1. Authorizing the Administrator to sign the Notice of Grant Award
2. Amending the budget as attached hereto and made a part hereof
3. Authorizing the Administrator to sign delegate contracts upon review of Corporation Counsel to be filed with the County Clerk

