

Heron Lake Watershed District 2018 Annual Plan and Budget



**WATERSHED
ASSISTANCE
THROUGH
EDUCATION &
RESOURCES**

H  **HERON LAKE WATERSHED DISTRICT**

Heron Lake Watershed District
1008 3rd Avenue, PO Box 345
Heron Lake, MN 56137
507-793-2462
www.hlwdonline.org

January 4, 2018

Heron Lake Watershed District 2018 Annual Plan

WATER QUALITY IMPROVEMENT PROGRAM

SURFACE WATER MONITORING

The HLWD WMP described the estimated annual surface water monitoring efforts, contingent upon adequate funding, as:

- Collecting water samples on Jack Creek, Okabena Creek, and the Heron Lake Outlet
- Collecting water samples on the Graham Lakes, Fulda Lakes, and Heron Lakes
- Analyzing water samples for total suspended solids, total phosphorus, orthophosphorus, ammonia nitrogen, nitrate-nitrite, total Kjeldahl nitrogen, chlorophyll A, suspended volatile solids, turbidity, dissolved oxygen, pH, and biochemical oxygen demand

Anticipated 2018 Activities:

- Collect 20 stream samples on Jack Creek, Okabena Creek, and the Heron Lake Outlet
- Submit data to Minnesota Valley Testing Laboratories for analysis
- Analyze stream samples for total suspended solids, total phosphorus, orthophosphorus, ammonia nitrogen, nitrate-nitrite, total Kjeldahl nitrogen, E. Coli, suspended volatile solids, turbidity, dissolved oxygen, pH, and temperature
- Compile data and submit to Minnesota Pollution Control Agency
- HLWD Watershed Technician wages and benefits
- HLWD Summer Interns' wages and benefits

BMP IMPLEMENTATION

The HLWD WMP described the estimated annual projects, contingent upon adequate funding, as:

- Filter strips – 200 acres
- Grassed waterways – 3 projects
- Terraces – 10 terraces
- Shoreline restoration – 1 project
- Rain gardens – 1 project
- Septic systems – 20 systems
- Well sealing – 5 projects
- Stream restoration – 2 projects
- Cover crop establishment – 200 acres

Anticipated 2018 Activities:

- Streambank stabilization (grant application submitted) – 3
- Cover crop side by side trials-4 counties

- Clean Water Partnership low interest loans for septic system replacements - 10
- Survey and Data Acquisition Fund administration
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

IMPAIRED WATERS AND TMDL

The HLWD WMP described the estimated annual efforts, contingent upon adequate funding, as:

- Monthly assistance for partners during project design and installation during the field season
- Monthly assistance for partners for education efforts as needed
- Two grant applications
- Twelve monthly project updates

Anticipated 2018 Activities:

- Community Outreach, Information Analysis, and Project Coordination as described in the WFDNR Watershed Project – Phase 2 Work Plan
- HLWD Administrator wages and benefits
- Watershed Coordinator wages and benefits

REGULATORY AND PERMIT PROGRAM

PERMITS AND NOTIFICATION

The HLWD WMP described the estimated annual aspects of the regulatory program, contingent upon adequate funding, as:

- Permits - 5
- Notifications - 75

Anticipated 2018 Activities:

- Permits - 5
- Notifications – 12
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

FLOOD DAMAGE REDUCTION PROGRAM

FLOOD DAMAGE REDUCTION PROGRAM

The HLWD WMP described the estimated annual projects, contingent upon adequate funding, as:

- Wetland restorations – 10 acres
- Alternative tile intakes – 10 intakes
- Sediment basins – 2 projects

Anticipated 2018 Activities:

- Research potential flood retention sites through PTMApp
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

PUBLIC DRAINAGE SYSTEM MANAGEMENT PROGRAM

PUBLIC DRAINAGE SYSTEM MANAGEMENT PROGRAM

The HLWD WMP described the estimated annual details of the Public Drainage System Management Program, contingent upon adequate funding, as:

- Work with county drainage authorities, county engineers, and watershed landowners to:
 - Identify water quality improvement and water storage capacity projects within drainage systems
 - Develop project
 - Research project funding

Anticipated 2018 Activities:

- Continued efforts as required through Minnesota Statutes 103D and 103E for the Jackson County Jackson County Judicial Ditch (JD) #30, Jackson County JD #30 Branch A-1, Jackson County JD #30 Lateral to Branch A-1, Jackson County Ditch #3, Jackson County JD #19; Jackson County JD #14; and Jackson County JD #3 Improvement Projects; as well as HLWD Projects 4 and 84-4A Reestablishment of Records
- HLWD Administrator wages and benefits

CAPITAL IMPROVEMENT PROJECTS

The HLWD WMP described the estimated annual details of implementing capital improvement projects, contingent upon adequate funding, as:

- Project identification/location
- Landowner contact
- Preliminary engineering / feasibility studies
- Research project funding
- Project construction

Anticipated 2018 Activities:

- Research potential project sites through PTMApp
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

PROGRAMS

GENERAL OPERATIONS

The HLWD WMP described the estimated annual general operations as:

- Monthly lease payment
- Monthly office expenses
- Legal fees
- Annual audit
- HLWD Board of Managers per diem
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

Anticipated 2018 Activities:

- Continued implementation of the above-listed items
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

EDUCATION

The HLWD WMP described the estimated annual education efforts, contingent upon adequate funding, resident interest, pertinent topic and speaker availability, as:

- Two workshops
- One tour
- Twelve monthly newsletters
- One annual report

Anticipated 2018 Activities:

- Website
- Jackson County Water Plan Committee presentation
- Cover Crop Workshop
- Water quality monitoring results to HLWD Board
- Annual update about HLWD activities to commissioners in Nobles, Jackson, Murray, and Cottonwood Counties
- Quarterly meetings with HLWD Advisory Committee
- Reporting as required in grant work plans
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

2018 Annual Budget

| | General Operating Levy & Reserve Funds - 2018 | Grants/ Loan Funds 2018 | Survey and Data Acquisition Fund 2018 |
|---|--|-------------------------------|--|
| WATER QUALITY IMPROVEMENT PROGRAM* | | | |
| BMP Implementation Program | | | |
| BMP Cost-Share and Monitoring Program** | - | - | - |
| Seward 29 Dam Engineering | 16,540.00 | - | - |
| Engineering | 2,000.00 | - | - |
| Travel | 8,000.00 | - | - |
| Vehicle Expense | 4,000.00 | - | - |
| WFDNR Targeting and Prioritizing Endeavor | - | 13,135.00 | 13,135.00 |
| CWP Low Interest Loan Program | - | 150,000.00 | - |
| HLWD Cover Crop Research Plots | - | - | - |
| Watershed Management Plan Update | - | - | 12,424.00 |
| District Administrator | 1,746.94 | - | - |
| Watershed Technician | 25,625.62 | - | - |
| Summer Interns | 6,000.00 | - | - |
| Subtotal | 63,912.56 | 163,135.00 | 25,559.00 |
| Surface Water Monitoring** | | | |
| Monitoring Program - DNR Contract | - | - | 11,380.00 |
| Shipping and Ice | 1,200.00 | - | - |
| Sample Analysis | 4,252.88 | - | 4,241.12 |
| District Administrator | 873.47 | - | - |
| Watershed Technician | 4,076.80 | - | - |
| Subtotal | 10,403.15 | - | 15,621.12 |
| Impaired Waters and TMDL | | | |
| Major Watershed Project | - | 87,866.00 | - |
| District Administrator | 2,620.41 | - | - |
| Watershed Technician | - | - | - |
| Subtotal | 2,620.41 | 87,866.00 | - |
| Flood Damage Reduction Program | | | |
| District Administrator | - | - | - |
| Watershed Technician | - | - | - |
| Subtotal | - | - | - |
| Regulatory and Permits | | | |
| District Administrator | - | - | - |
| Watershed Technician | 582.40 | - | - |
| Subtotal | 582.40 | - | - |
| Public Drainage System Management | | | |
| Jackson County Ditch #3 | - | - | - |
| Jackson County JD #3 | - | - | - |
| Jackson County JD #14 | - | - | - |
| Jackson County JD #19 | - | - | - |
| Jackson County JD #30 | - | - | - |
| Jackson County JD #30 Branch A-1 | - | - | - |
| Jackson County JD #30 Lateral to Branch A-1 | - | - | - |
| Project 4 | - | - | - |
| Project 84-4A | - | - | - |
| District Administrator | 25,330.58 | - | - |
| Watershed Technician | - | - | - |
| Subtotal | 25,330.58 | - | - |

| Capital Improvement Projects (Water Management District) | | | |
|---|-------------------|-------------------|------------------|
| District Administrator | - | - | - |
| Watershed Technician | - | - | - |
| Subtotal | - | | |
| IMPLEMENTATION PROGRAM | | | |
| General Operations | | | |
| Advertising/Notices | 1,500.00 | - | - |
| Dues*** | 5,979.00 | - | - |
| Insurance | 7,000.00 | - | - |
| Lease Payment | 6,000.00 | - | - |
| Legal Fees | 1,000.00 | - | - |
| Laptop | 925.00 | - | - |
| LCD Projector | 200.00 | - | - |
| Miscellaneous | 100.00 | - | - |
| Office Supplies | 4,500.00 | - | - |
| Postage | 1,200.00 | - | - |
| Professional Services | 7,000.00 | - | - |
| Telephone | 1,500.00 | - | - |
| Interest | - | - | - |
| Board of Managers | 15,000.00 | - | - |
| District Administrator | 11,355.09 | - | - |
| Watershed Technician | 2,329.60 | - | - |
| Subtotal | 65,588.69 | - | - |
| Education | | | |
| Annual Report | 2,000.00 | - | - |
| Conferences | 7,000.00 | - | - |
| Annual Newsletter | 1,600.00 | - | - |
| MDA Soil Health Research Grant | - | 8,754.80 | - |
| HLWD Cover Crop Research Plots | 9,274.00 | - | - |
| PEBC Tour/Education Event | 500.00 | - | - |
| District Administrator | 45,420.36 | - | - |
| Watershed Technician | 25,625.62 | - | - |
| Subtotal | 91,419.98 | 8,754.80 | - |
| TOTAL | 259,857.77 | 259,755.80 | 41,180.12 |

