

# elm creek Watershed Management Commission

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## REVISED AGENDA

May 11, 2018

1. Call Regular Meeting to Order.
  - a. Approve Agenda.\*
2. Consent Agenda.
  - a. Minutes last Meeting.\*
  - b. **Treasurer's Report and Claims.\***
- Suspend regular meeting*
3. Public Meeting for Minor Plan Amendment to Third Generation Plan.
  - a. Staff Report.\*
    - 1) Revised CIP.\*
  - b. Commissioner Discussion.
  - c. Open Public Meeting.
    - 1) Receive written comments.
      - a) **DNR.\***
    - 2) Receive comments from public.
  - d. Close Public Meeting.
  - e. Commission Discussion.
  - f. Consider Resolution 2018-01.\*
- Resume regular meeting.*
4. Open Forum.
5. Action Items.
  - a. Project Reviews.\*
  - b. The Meadows Playfield, Plymouth.\*
  - c. **Consider 2019 Operating Budget.\*\***
    - 1) **Member Assessments.\*\***
  - d. **Approve Flood Mapping Agreement.\***
    - 1) **Adopt Resolution 2018-02.\***
7. New Business.
8. Communications.
9. Education.
  - a. WMWA Update.\*\*
10. Grant Opportunities and Updates.
  - a. Fish Lake Internal Phosphorus Loading Control.
    - 1) *Effectiveness of Late Summer Alum Application ....\**
  - b. Rush Creek Headwaters Subwatershed Assessment.
    - 1) **May 7 update.\***
  - c. 319 Small Watersheds Focus Program.\*
11. Project Reviews – *also see Staff Report.\**
12. Other Business.

\*in meeting packet

\*\*available at meeting

### 13. Adjourn.

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| Project Reviews. (See Staff Report.*) |   |   |  |    |           |   |
|---------------------------------------|---|---|--|----|-----------|---|
| a.                                    |   |   |  |    | 2013-046  | Woods of Medina, Medina.                                  |
| b.                                    |   |   |  |    | 2014-015  | Rogers Drive Extension, Rogers.                           |
| c.                                    |   |   |  |    | 2015-004  | Kinghorn Outlet A, Rogers.                                |
| d.                                    |   |   |  | AR | 2015-030  | Kiddiegarten Child Care Center, Maple Grove.              |
| e.                                    |   |   |  |    | 2016-002  | The Markets at Rush Creek, Maple Grove.                   |
| f.                                    |   |   |  |    | 2016-004  | Park Storage Place, Corcoran.                             |
| g.                                    |   |   |  |    | 2016-005W | Ravinia Wetland Bank Plan, Corcoran.                      |
| h.                                    |   |   |  | AR | 2016-026  | Faithbrook Church, Dayton.                                |
| i.                                    |   |   |  |    | 2016-040  | Kinghorn 4th Addition, Rogers.                            |
| j.                                    |   |   |  |    | 2016-047  | Hy-Vee Maple Grove #1 (Hy-Vee Maple Grove North).         |
| k.                                    |   |   |  | AR | 2016-052  | The Woods at Rush Creek, Maple Grove.                     |
| l.                                    |   |   |  | AR | 2017-014  | Laurel Creek, Rogers.                                     |
| m.                                    |   |   |  | AR | 2017-016  | Territorial Woods, Maple Grove.                           |
| n.                                    |   |   |  | AR | 2017-017  | Mary Queen of Peace Catholic Church, Rogers.              |
| o.                                    |   |   |  | AR | 2017-019  | Medina Senior Living Community, Medina.                   |
| p.                                    |   |   |  | AR | 2017-021  | Hindu Society of MN Staff Housing, Maple Grove.           |
| q.                                    |   |   |  | AR | 2017-029  | Brayburn Trails, Dayton.                                  |
| r.                                    |   |   |  |    | 2017-030  | Brindle Path, Medina.                                     |
| s.                                    |   |   |  |    | 2017-031  | Bass Lake Crossing, Corcoran.                             |
| t.                                    |   |   |  | AR | 2017-034  | Plymouth Memory Care, Plymouth.                           |
| u.                                    |   |   |  |    | 2017-035  | Weston Woods PUD, Medina.                                 |
| v.                                    |   |   |  |    | 2017-036  | Enclave at Elm Creek, Plymouth.                           |
| w.                                    |   |   |  | AR | 2017-037  | Corcoran L-80 Lift Station MCES Project 808520, Corcoran. |
| x.                                    |   |   |  |    | 2017-038  | Bass Lake Estates, Corcoran.                              |
| y.                                    |   |   |  |    | 2017-039  | Rush Creek Apartments, Maple Grove.                       |
| z.                                    |   |   |  |    | 2017-044  | Reserve at Medina 2nd Addition, Medina.                   |
| aa.                                   |   |   |  |    | 2017-045  | Fish Lake Estates, Maple Grove.                           |
| ab.                                   |   |   |  |    | 2017-046W | Wessell Property Wetland Delineation, Corcoran.           |
| ac.                                   |   |   |  |    | 2017-048W | Ebert Parcel Wetland Delineation, Corcoran.               |
| ad.                                   |   | E |  |    | 2017-049W | Rolling Hills Wetland Delineation, Corcoran.              |
| af.                                   |   |   |  |    | 2017-050W | Ernie Mayer Wetland/floodplain violation, Corcoran.       |
| ag.                                   |   |   |  | AR | 2017-051  | Mallard South 2nd Addition, Rogers.                       |
| ah.                                   |   |   |  |    | 2017-053  | Sunrise Solar, Corcoran.                                  |
| ai.                                   |   |   |  | AR | 2018-001  | Rush Creek Commons, Maple Grove.                          |
| aj.                                   |   |   |  |    | 2018-002  | Mill Pond Pedestrian Trail and Bridge, Champlin.          |
| ak.                                   |   |   |  |    | 2018-004  | Rush Creek Restoration, Maple Grove.                      |
| al.                                   |   |   |  |    | 2018-005  | Sundance Greens, Dayton.                                  |
| am.                                   |   |   |  |    | 2018-007  | Copper Creek of Nottingham, Maple Grove.                  |
| an.                                   | A | E |  |    | 2018-008  | Hayden Hills Golf Course, Dayton.                         |
| ao.                                   |   |   |  |    | 2018-009  | Plymouth NW Greenway Trail Phase IV, Plymouth.            |
| ap.                                   |   |   |  |    | 2018-010  | Greenway West, Plymouth.                                  |
| aq.                                   | A | E |  |    | 2018-011  | Rush Creek Run, Corcoran.                                 |

A = Action item E = Enclosure provided I = Informational update will be provided at meeting RPI = removed pending further information  
R = Will be removed RP= Information will be provided in revised meeting packet..... D = Project is denied AR awaiting recordation

\*in meeting packet  
\*\*available at meeting

CHAMPLIN - CORCORAN - DAYTON - MAPLE GROVE - MEDINA - PLYMOUTH - ROGERS

## Elm Creek Watershed Management Commission 2018 Treasurer's Report

|  |         | 2018 Budget       | Mar 2018         | April 2018        | May 2018          | 2018 Budget YTD   |
|--|---------|-------------------|------------------|-------------------|-------------------|-------------------|
| <b>EXPENSES</b>                                  |         |                   |                  |                   |                   |                   |
| Administrative                                   |         | 90,000            | 7,773.48         | 9,285.14          | 9,217.87          | 34,137.80         |
| Watershed-wide TMDL Admin                        |         | 2,500             |                  |                   |                   | 0.00              |
| Grant Writing                                    |         | 4,000             |                  |                   |                   | 0.00              |
| Website  |         | 6,000             | 176.85           | 94.80             | 123.75            | 590.40            |
| Legal  |         | 2,000             |                  |                   |                   | 77.50             |
| Audit  |         | 5,000             |                  |                   | 4,500.00          | 4,500.00          |
| Insurance  |         | 3,900             |                  | 2,793.00          |                   | 2,993.00          |
| Miscellaneous/Contingency                        |         | 1,000             | 983.00           |                   |                   | 0.00              |
| Project Reviews                                  | HCEE    | 95,000            |                  |                   |                   | 0.00              |
| Project Reviews                                  | Consult | 12,000            | 260.00           |                   | 2,623.00          | 2,883.00          |
| Project Reviews                                  | Admin   | 14,000            | 898.50           | 632.27            | 929.43            | 3,515.72          |
| WCA-Technical                                    | HCEE    | 17,750            |                  |                   |                   | 0.00              |
| WCA  | Legal   | 500               |                  |                   |                   | 0.00              |
| WCA  | Admin   | 1,500             | 103.07           | 125.15            | 106.59            | 459.57            |
| Floodplain Mapping                               |         |                   |                  |                   | 1.43              | 1.43              |
| Stream Monitoring                                |         | 24,900            | 2,517.00         |                   |                   | 0.00              |
| Extensive Stream Monitoring                      |         | 7,600             |                  |                   |                   | 0.00              |
| DO Longitudinal Survey                           |         | 1,000             | 500.00           |                   |                   | 0.00              |
| TMDL Follow-up - TRPD                            |         | 5,000             |                  |                   |                   | 0.00              |
| Rain Gauge                                       |         | 250               | 16.64            | 16.51             | 16.64             | 66.44             |
| Rain Gauge Network                               |         | 100               |                  |                   |                   | 0.00              |
| Lakes Monitoring - CAMP                          |         | 720               |                  |                   |                   | 0.00              |
| Lakes Monitoring - TRPD                          |         |                   |                  |                   |                   |                   |
| Sentinel Lakes                                   |         | 3,300             |                  |                   |                   | 0.00              |
| Additional Lake                                  |         | 825               |                  |                   |                   | 0.00              |
| Aquatic Vegetation Surveys                       |         | 1,100             |                  |                   |                   | 0.00              |
| Wetland Monitoring (WHEP)                        |         | 4,000             |                  |                   |                   | 0.00              |
| Education  |         | 4,000             | 583.48           | 175.33            |                   | 1,351.73          |
| WMWA General Activities                          |         | 4,000             | 2,000.00         |                   |                   | 2,000.00          |
| WMWA Educators/Watershed Prep                    |         | 4,500             | 2,250.00         |                   |                   | 2,250.00          |
| WMWA Special Projects                            |         | 2,000             | 1,000.00         |                   |                   | 1,000.00          |
| Rain Garden Workshops                            |         | 2,000             |                  |                   |                   | 0.00              |
| Education Grants                                 |         | 2,000             |                  |                   |                   | 0.00              |
| Macroinvertebrate Monitoring-River Watch         |         | 3,000             |                  |                   |                   | 0.00              |
| Projects ineligible for ad valorem               |         | 50,000            |                  |                   |                   | 0.00              |
| Studies / Project ID / SWA                       |         | 35,000            | 413.63           | 318.11            | 192.05            | 1,168.29          |
| Plan Amendments                                  |         | 2,000             |                  | 91.80             | 578.43            | 670.23            |
| Local Plan Review                                |         | 8,000             |                  |                   |                   | 0.00              |
| Transfer to (from) Encumbered Funds (see below)  |         |                   | 1,000.00         |                   |                   | 0.00              |
| Transfer to (from) Capital Projects (see CIP Tra |         |                   | 1,836.48         | 248,261.87        |                   | 248,261.87        |
| Transfer to (from) Cash Sureties (see below)     |         |                   |                  |                   |                   | 0.00              |
| Transfer to (from) Grants (see below)            |         |                   | 6,301.22         | 5,291.60          | 5,066.56          | 24,753.16         |
| To Fund Balance                                  |         |                   |                  |                   |                   | 0.00              |
| <b>TOTAL - Month</b>                             |         |                   | <b>28,613.35</b> | <b>267,085.58</b> | <b>23,355.75</b>  | <b>330,680.14</b> |
| <b>TOTAL Paid in 2018, incl 2017 Expenses</b>    |         | <b>910,445.00</b> | <b>94,558.35</b> | <b>361,643.93</b> | <b>384,999.68</b> | <b>2018 Paid</b>  |
|  |         |                   | 2017 Activity    |                   |                   |                   |

## Elm Creek Watershed Management Commission 2018 Treasurer's Report

|   |  | 2018 Budget        | Mar 2018            | April 2018          | May 2018            | 2018 Budget YTD        |
|---|--|--------------------|---------------------|---------------------|---------------------|------------------------|
| <b>INCOME</b>                                     |  |                    |                     |                     |                     |                        |
| <i>From Fund Balance</i>                          |  |                    |                     |                     |                     |                        |
| Project Review Fee                                |  | 80,000             | 10,144.50           | 13,540.00           |                     | 33,754.50              |
| Return Project Fee                                |  |                    |                     |                     | (6,150.00)          | (6,150.00)             |
| Water Monitoring - TRPD Co-op Agmt                |  | 6,500              | 5,035.74            |                     |                     | 0.00                   |
| WCA Fees  |  | 10,000             |                     |                     |                     | 0.00                   |
| Return WCA Fee                                    |  |                    |                     |                     |                     | 0.00                   |
| Reimbursement for WCA Expense                     |  |                    |                     | 367.50              |                     | 607.50                 |
| WCA Escrow Earned                                 |  |                    |                     |                     |                     | 0.00                   |
| Member Dues                                       |  | 225,000            |                     |                     |                     | 225,000.00             |
| Interest/Dividends Earned                         |  | 1,000              | 1,339.63            | 1,330.76            |                     | 4,676.64               |
| Transfer to (from) Capital Projects (see CIP Tra  |  | 490,000            |                     |                     |                     | 0.00                   |
| Transfer to (from) Grants (see below)             |  |                    | -                   | 100,112.00          | -                   | 100,112.00             |
| Misc Income                                       |  |                    |                     |                     |                     | 0.00                   |
| <b>Total - Month</b>                              |  |                    | <b>16,519.87</b>    | <b>115,350.26</b>   | <b>-6,150.00</b>    | <b>358,000.64</b>      |
| <b>TOTAL Funds Rec'd in 2018, incl 2017 Incom</b> |  | <b>812,500.00</b>  | <b>259,062.78</b>   | <b>374,413.04</b>   | <b>368,263.04</b>   | <b>2018 Received</b>   |
| <b>CASH SUMMARY</b>                               |  | <b>Balance Fwd</b> |                     |                     |                     |                        |
| Checking  |  | -9,220.00          |                     |                     |                     |                        |
| 4M Fund   |  | 1,118,838.76       | 1,274,123.19        | 1,122,387.87        | 1,092,882.12        |                        |
| <b>Cash on Hand</b>                               |  |                    | <b>1,274,123.19</b> | <b>1,122,387.87</b> | <b>1,092,882.12</b> |                        |
| <b>CASH SURETIES HELD</b>                         |  | <b>Balance Fwd</b> |                     |                     |                     | <b>Activity 2018</b>   |
| WCA Escrows Received                              |  | 150,570.60         |                     |                     |                     | 0.00                   |
| WCA Escrow Reduced                                |  | 0.00               |                     |                     |                     | 0.00                   |
| <b>Total Cash Sureties Held</b>                   |  | <b>150,570.60</b>  | <b>150,570.60</b>   | <b>150,570.60</b>   | <b>150,570.60</b>   |                        |
| <b>RESTRICTED / ENCUMBERED FUNDS</b>              |  | <b>Balance Fwd</b> |                     |                     |                     |                        |
| Restricted for CIPs                               |  | 129,049            |                     |                     |                     | 129,048.57             |
| Enc. Studies / Project Identification / SWA       |  | 62,832             |                     |                     |                     | 62,831.80              |
| Assigned Extensive Stream Monitoring              |  | 1,000              | -1,000.00           |                     |                     | 0.00                   |
| <b>Total Restricted / Encumbered Funds</b>        |  | <b>191,880</b>     | <b>190,880.37</b>   | <b>190,880.37</b>   | <b>190,880.37</b>   |                        |
|   |  |                    | 2017 Activity       |                     |                     |                        |
|   |  |                    | <b>Mar 2018</b>     | <b>April 2018</b>   | <b>May 2018</b>     | <b>2018 Budget YTD</b> |
| <b>GRANTS</b>                                     |  |                    |                     |                     |                     |                        |
| <b>Fish Lake CWLA</b>                             |  |                    |                     |                     |                     |                        |
| Revenue   |  |                    |                     | 80,000.00           |                     | 80,000.00              |
| Expense   |  |                    | 21.09               |                     | 37.44               | 181.62                 |
| Balance   |  |                    | (21.09)             | 80,000.00           | (37.44)             | 79,818.38              |
| <b>Rush Creek SWA</b>                             |  |                    |                     |                     |                     |                        |
| Revenue   |  |                    |                     | 20,112.00           |                     | 20,112.00              |
| Expense   |  |                    | 6,280.13            | 5,291.60            | 5,029.12            | 24,571.54              |
| Balance   |  |                    | (6,280.13)          | 14,820.40           | (5,029.12)          | (4,459.54)             |
| <b>TOTAL GRANTS</b>                               |  |                    |                     |                     |                     |                        |
| Revenue   |  |                    | -                   | 100,112.00          | -                   | <b>100,112.00</b>      |
| Expense   |  |                    | 6,301.22            | 5,291.60            | 5,066.56            | <b>24,753.16</b>       |
| Balance   |  |                    | <b>(6,301.22)</b>   | <b>94,820.40</b>    | <b>(5,066.56)</b>   | <b>75,358.84</b>       |

## Elm Creek Watershed Management Commission 2018 Treasurer's Report

| Claims Presented                          |  | General Ledger<br>Account No | March | April | May      | TOTAL            |
|---|--|------------------------------|-------|-------|----------|------------------|
| Campbell Knutson - Legal                  |  | 521000                       |       |       |          | 0.00             |
| Connexus - Rain Gauge                     |  | 551100                       |       |       | 16.64    | 16.64            |
| Barr Engineering - Proj Rev Consultant    |  | 578050                       |       |       | 2,623.00 | 2,623.00         |
| ECM Publishers                            |  |                              |       |       |          | 336.68           |
| ECM - EC Plan Amendment Notice            |  | 541500                       |       |       | 336.68   |                  |
| Indep School Dist No 284 - Refund PR Fee  |  | 381000                       |       |       | 6,150.00 | 6,150.00         |
| Johnson & Company - Audit, Financial Prep |  | 521000                       |       |       | 4,500.00 | 4,500.00         |
| Wenck                                     |  |                              |       |       |          | 4,917.40         |
| Grant - Rush Creek SWA                    |  | 584002                       |       |       | 4,917.40 |                  |
| JASS                                      |  |                              |       |       |          | 10,962.03        |
| Administration                            |  | 511000                       |       |       | 6,243.19 |                  |
| TAC Support                               |  | 511000                       |       |       | 751.88   |                  |
| Annual Report                             |  | 511000                       |       |       | 2,222.80 |                  |
| Website                                   |  | 581000                       |       |       | 123.75   |                  |
| Project Reviews                           |  | 578100                       |       |       | 929.43   |                  |
| WCA                                       |  | 579000                       |       |       | 106.59   |                  |
| Plan Amendment                            |  | 541500                       |       |       | 241.75   |                  |
| Education                                 |  | 590000                       |       |       |          |                  |
| CIPs General                              |  | 563001                       |       |       | 192.05   |                  |
| CIP 2014-02 Champlin Mill Pond Dam        |  | 563003                       |       |       |          |                  |
| CIP 2016-03 EC Dam at Mill Pond           |  | 563007                       |       |       |          |                  |
| Grant Opportunities                       |  | 511000                       |       |       |          |                  |
| Grant - Fish Lake CWLA                    |  | 584001                       |       |       | 37.44    |                  |
| Grant - Rush Creek SWA                    |  | 584002                       |       |       | 111.72   |                  |
| Floodplain Mapping                        |  | 580430                       |       |       | 1.43     |                  |
| <b>TOTAL CLAIMS</b>                       |  |                              |       |       |          | <b>29,505.75</b> |

**Elm Creek Watershed Management Commission  
2018 Treasurer's Report - Capital Improvement Project Tracking**

| CIPs   |                             | Amount     | %age    | TOTAL<br>2014 | TOTAL<br>2015 | TOTAL<br>2016 | TOTAL<br>2017 | JAN<br>2018 | FEB<br>2018 | MAR<br>2018 | APR<br>2018  | MAY<br>2018 | TOTAL<br>2018 | TOTAL ALL<br>YEARS |
|--|-----------------------------|------------|---------|---------------|---------------|---------------|---------------|-------------|-------------|-------------|--------------|-------------|---------------|--------------------|
| 2014-01 Medina Tower Drive                   |                             | 68,750     | 52.380  |               |               |               |               |             |             |             |              |             |               |                    |
|  | Revenue                     |            |         | -             | 68,916.44     | (37.13)       | (15.52)       |             |             |             |              |             | -             | 68,863.79          |
|  | Expense                     |            |         | 1,989.80      | -             | -             | -             |             |             |             |              |             | -             | 1,989.80           |
|  | Balance                     |            |         | (1,989.80)    | 68,916.44     | (37.13)       | (15.52)       |             |             |             |              |             | -             | 66,873.99          |
| 2014-02 Champlin Mill Pond Dam               |                             | 62,500     | 47.620  |               |               |               |               |             |             |             |              |             |               |                    |
|  | Revenue                     |            |         | -             | 62,653.69     | (33.75)       | (14.11)       |             |             |             |              |             | -             | 62,605.83          |
|  | Expense                     |            |         | 1,631.81      | -             | -             | -             |             |             |             | 75.00        |             | 75.00         | 1,706.81           |
|  | Payment to City             |            |         |               |               |               |               |             |             |             | 60,793.19    |             | 60,793.19     | 60,793.19          |
|  | Balance (unexpended funds)  |            |         | (1,631.81)    | 62,653.69     | (33.75)       | (14.11)       |             |             |             | (60,868.19)  |             | (60,868.19)   | 105.83             |
| 2015-01 Plymouth Elm Creek Restoration       |                             | 250,000.00 | 100.000 |               |               |               |               |             |             |             |              |             |               |                    |
|  | Revenue                     |            |         |               | -             | 249,866.05    | 1,273.36      |             |             |             |              |             |               | 251,139.41         |
|  | Expense                     |            |         |               | 2,606.17      | 280.99        | -             |             |             |             |              |             |               | 2,887.16           |
|  | First Half Payment          |            |         |               |               | 122,112.84    | -             |             |             |             |              |             |               | 122,112.84         |
|  | Second Half Partial Payment |            |         |               |               | 123,163.52    | -             |             |             |             |              |             |               | 123,163.52         |
|  | Final Payment               |            |         |               |               |               | 1,836.48      |             |             |             |              |             |               | 1,836.48           |
|  | Balance (unexpended funds)  |            |         |               | (2,606.17)    | 4,308.70      | (563.12)      |             |             |             |              |             |               | 1,139.41           |
| 2016-01 Fox Creek Phase 2 Bank Stabilizatio  |                             | 80,312.00  | 16.296  |               |               |               |               |             |             |             |              |             |               |                    |
|  | Revenue                     |            |         |               | -             | -             | 80,353.26     |             |             |             |              |             | -             | 80,353.26          |
|  | Expense                     |            |         |               | -             | 106.32        | -             |             |             |             |              |             | -             | 106.32             |
|  | Balance                     |            |         |               | -             | (106.32)      | 80,353.26     |             |             |             |              |             | -             | 80,246.94          |
| 2016-02 Miss River Shore Repair/Stabilizatio |                             | 75,000.00  | 15.219  |               |               |               |               |             |             |             |              |             |               |                    |
|  | Revenue                     |            |         |               | -             | -             | 75,042.75     |             |             |             |              |             | -             | 75,042.75          |
|  | Expense                     |            |         |               | -             | 106.32        | -             |             |             |             |              |             | -             | 106.32             |
|  | Balance                     |            |         |               | -             | (106.32)      | 75,042.75     |             |             |             |              |             | -             | 74,936.43          |
| 2016-03 EC Dam at Mill Pond                  |                             | 187,500.00 | 38.047  |               |               |               |               |             |             |             |              |             |               |                    |
|  | Revenue                     |            |         |               | -             | -             | 187,604.39    |             |             |             |              |             | -             | 187,604.39         |
|  | Expense                     |            |         |               | -             | 106.32        | -             |             |             |             | 75.00        |             | 75.00         | 181.32             |
|  | Payment to City             |            |         |               |               |               |               |             |             |             | 187,318.68   |             | 187,318.68    | 187,318.68         |
|  | Balance (unexpended funds)  |            |         |               | -             | (106.32)      | 187,604.39    |             |             |             | (187,393.68) |             | (187,393.68)  | 104.39             |
| 2016-04 Rush Creek Main Stem Restoration     |                             | 75,000.00  | 15.219  |               |               |               |               |             |             |             |              |             |               |                    |
|  | Revenue                     |            |         |               | -             | -             | 75,042.75     |             |             |             |              |             | -             | 75,042.75          |
|  | Expense                     |            |         |               | -             | 106.32        | -             |             |             |             |              |             | -             | 106.32             |
|  | Balance                     |            |         |               | -             | (106.32)      | 75,042.75     |             |             |             |              |             | -             | 74,936.43          |
| 2016-05 Fish Lake Alum Trmt Phase 1          |                             | 75,000.00  | 15.219  |               |               |               |               |             |             |             |              |             |               |                    |
|  | Revenue                     |            |         |               | -             | -             | 75,042.75     |             |             |             |              |             | -             | 75,042.75          |
|  | Expense                     |            |         |               | -             | 106.32        | -             |             |             |             |              |             | -             | 106.32             |
|  | Balance                     |            |         |               | -             | (106.32)      | 75,042.75     |             |             |             |              |             | -             | 74,936.43          |

**Elm Creek Watershed Management Commission  
2018 Treasurer's Report - Capital Improvement Project Tracking**

| CIPs             |  |  | Amount     | %age   | TOTAL<br>2014 | TOTAL<br>2015 | TOTAL<br>2016 | TOTAL<br>2017 | JAN<br>2018 | FEB<br>2018 | MAR<br>2018 | APR<br>2018  | MAY<br>2018 | TOTAL<br>2018 | TOTAL ALL<br>YEARS |
|------------------|--|--|------------|--------|---------------|---------------|---------------|---------------|-------------|-------------|-------------|--------------|-------------|---------------|--------------------|
|                  |  | 2017-01 Fox Creek Phase 3 Streambank Sta     | 112,500.00 | 25.714 |               |               |               |               |             |             |             |              |             |               |                    |
|                  |  | Revenue                                      |            |        |               | -             | -             | -             |             |             |             |              |             | -             | -                  |
|                  |  | Expense                                      |            |        |               | -             | -             | 135.85        |             |             |             |              |             | -             | 135.85             |
|                  |  | Balance                                      |            |        |               | -             | -             | (135.85)      |             |             |             |              |             | -             | (135.85)           |
|                  |  | 2017-03 Mill Pond Fishery & Habitat Restorat | 250,000.00 | 57.143 |               |               |               |               |             |             |             |              |             |               |                    |
|                  |  | Revenue                                      |            |        |               | -             | -             | -             |             |             |             |              |             | -             | -                  |
|                  |  | Expense                                      |            |        |               | -             | -             | 135.86        |             |             |             |              |             | -             | 135.86             |
|                  |  | Balance                                      |            |        |               | -             | -             | (135.86)      |             |             |             |              |             | -             | (135.86)           |
|                  |  | 2017-04 Rain Garden at Independence Ave      | 75,000.00  | 17.143 |               |               |               |               |             |             |             |              |             |               |                    |
|                  |  | Revenue                                      |            |        |               | -             | -             | -             |             |             |             |              |             | -             | -                  |
|                  |  | Expense                                      |            |        |               | -             | -             | 135.85        |             |             |             |              |             | -             | 135.85             |
|                  |  | Balance                                      |            |        |               | -             | -             | (135.85)      |             |             |             |              |             | -             | (135.85)           |
| <b>TOTAL CIP</b> |  |  |            |        |               |               |               |               |             |             |             |              |             |               |                    |
|                  |  | Revenue                                      |            |        | -             | 131,570.13    | 249,795.17    | 494,329.63    | -           | -           | -           | -            | -           | -             | 875,694.93         |
|                  |  | Expense                                      |            |        | 3,621.61      | 2,606.17      | 812.59        | 407.56        | -           | -           | -           | 150.00       | -           | 150.00        | 7,597.93           |
|                  |  | Payments                                     |            |        |               |               | 245,276.36    | 1,836.48      | -           | -           | -           | 248,111.87   | -           | 248,111.87    | 495,224.71         |
|                  |  | Balance                                      |            |        | (3,621.61)    | 128,963.96    | 3,706.22      | 492,085.59    | -           | -           | -           | (248,261.87) | -           | (248,261.87)  | 372,872.29         |



## Monthly Statement

Service Address  
ELM CREEK RD  
DAYTON MN

### Billing Summary

Billing Date: Apr 17, 2018

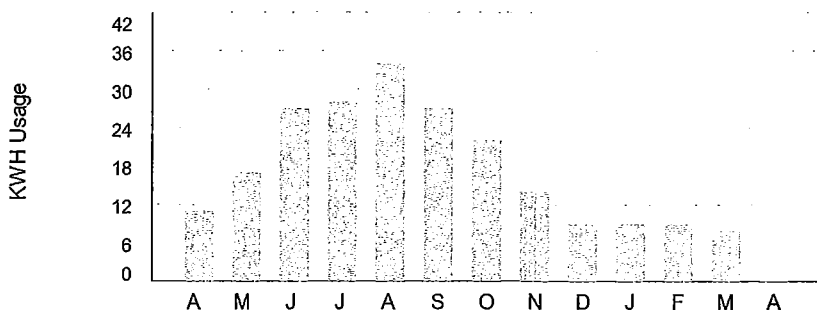
|                        |                |
|------------------------|----------------|
| Previous Balance       | \$16.51        |
| Payments - Thank You!  | \$16.51        |
| <b>Balance Forward</b> | <b>\$0.00</b>  |
| <b>New Charges</b>     | <b>\$16.64</b> |

**Total Amount Due** **\$16.64**

Payment must be received on or before May 13, 2018

### Energy Comparison

Previous Months' Usage Current Month's Usage



### How to contact us

Member Services / Moving - 763-323-2650  
Outages and Emergencies - 763-323-2660  
Hearing/Speech Impaired Call - 711 or 800-627-3529  
Email: [info@connexusenergy.com](mailto:info@connexusenergy.com)  
[www.connexusenergy.com](http://www.connexusenergy.com)  
Gopher State One Call - 811  
14601 Ramsey Boulevard, Ramsey, MN 55303

Account Number:

**481113-238425**

ELM CREEK WATERSHED MGMT ORG

Total Amount Due

**\$16.64**

Due Date

**May 13, 2018**

### Message Center

#### Sign up for outage alerts

Power outage and restoration information is at your fingertips. Sign up to get outage updates via text, email or both. Before you can sign up, you first need to register your account at [connexusenergy.com](http://connexusenergy.com).

#### Get your FREE Wi-Fi thermostat

There's still time to take advantage of our FREE Wi-Fi thermostat offer when you sign up for our Wi-Fi PowerNap® air conditioning program. Also, check out a special discount offer on the Lyric Round. For more information, go to [connexusenergy.com](http://connexusenergy.com).

▼ Please detach at perforation and return this portion with a check or money order made payable to Connexus Energy ▼

TRA3-D-008034/000255 AGVMY1 S1-ET-M1-C00003 1



Account Number:

**481113-238425**

Total Amount Due

**\$16.64**

Payment Due By

**May 13, 2018**

008034 1 AB 0.405 000125/008034/000255 031 02 AGVMY1  
ELM CREEK WATERSHED MGMT ORG  
3235 FERNBROOK LN N  
PLYMOUTH MN 55447-5325



Connexus Energy  
PO Box 1808  
Minneapolis, MN 55480-1808

00001664 0004811130238425 000000 00000 00000000000 0000001





# INVOICE

Barr Engineering Co.  
4300 MarketPointe Drive, Suite 200  
Minneapolis, MN 55435  
Phone: 952-832-2600; Fax: 952-832-2601  
FEIN #: 41-0905995 Inc: 1966

Ms. Judie Anderson  
Elm Creek Watershed Management  
JASS-Watershed Administrators  
3235 Fernbrook Lane  
Plymouth, MN 55447

April 19, 2018  
Invoice No: 23270F55.05 - 2

|                           |                 |
|---------------------------|-----------------|
| <b>Total this Invoice</b> | <b>\$400.00</b> |
|---------------------------|-----------------|

## Regarding: Elm Creek Wetland Mitigation Monitoring

This invoice is for professional services related to Elm Creek Wetland Mitigation Monitoring project, which included the following tasks:

### Job 001 – Ravinia Wetland Mitigation

#### Task 001 –2017 Monitoring and Report

- Communications with Jim Kujawa and Brian Burgner to review monitoring requirements and site status

### Professional Services from February 24, 2018 to March 23, 2018

|       |     |                            |
|-------|-----|----------------------------|
| Job:  | 001 | Ravinia Wetland Mitigation |
| Task: | 002 | 2018 Monitoring and Report |

#### Labor Charges

|                                       |           | Hours | Rate                      | Amount |                 |
|---------------------------------------|-----------|-------|---------------------------|--------|-----------------|
| Engineer / Scientist / Specialist III |           |       |                           |        |                 |
| Wold, Karen                           | 3/22/2018 | 3.20  | 125.00                    | 400.00 |                 |
|                                       |           | 3.20  |                           | 400.00 |                 |
| <b>Subtotal Labor</b>                 |           |       |                           |        | <b>400.00</b>   |
|                                       |           |       | <b>Task Subtotal</b>      |        | <b>\$400.00</b> |
|                                       |           |       | <b>Job Subtotal</b>       |        | <b>\$400.00</b> |
|                                       |           |       | <b>Total this Invoice</b> |        | <b>\$400.00</b> |

|                  | Current | Prior    | Total    | Received | A/R Balance |
|------------------|---------|----------|----------|----------|-------------|
| Invoiced to Date | 400.00  | 1,501.40 | 1,901.40 | 1,501.40 | 400.00      |

Thank you in advance for your prompt processing of this invoice. If you have any questions, please contact your Barr Project Manager, Jeff Weiss, Phone: 952-832-2706 or E-Mail: [jweiss@barr.com](mailto:jweiss@barr.com).

PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.

Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.



# INVOICE

Barr Engineering Co.  
4300 MarketPointe Drive, Suite 200  
Minneapolis, MN 55435  
Phone: 952-832-2600; Fax: 952-832-2601  
FEIN #: 41-0905995 Inc: 1966

Ms. Judie Anderson  
Elm Creek Watershed Management  
JASS-Watershed Administrators  
3235 Fernbrook Lane  
Plymouth, MN 55447

April 23, 2018  
Invoice No: 23270F55.03 - 89

|                           |                   |
|---------------------------|-------------------|
| <b>Total this Invoice</b> | <b>\$2,223.00</b> |
|---------------------------|-------------------|

## Regarding: Development Reviews

This invoice is for professional services related to Elm Creek Watershed Management Commission project reviews, which included the following tasks:

### Task 001 – Commission Meetings

- Attend Commission meetings in February and March
- Attend TAC meeting in February

### Task 166 – Hayden Hills

- Review of permit application materials
- Preparation of comments provided to engineer and developer
- Communications with other technical staff regarding project features

## Professional Services from January 28, 2018 to March 23, 2018

Job: JOB3 Project Review

Task: 001 Commission meetings

### Labor Charges

|                                       | Hours | Rate                 | Amount            |
|---------------------------------------|-------|----------------------|-------------------|
| Engineer / Scientist / Specialist III |       |                      |                   |
| Weiss, Jeffrey                        | 8.50  | 130.00               | 1,105.00          |
| Support Personnel I                   |       |                      |                   |
| Nypan, Nyssa                          | 1.80  | 90.00                | 162.00            |
|                                       | 10.30 |                      | 1,267.00          |
| <b>Subtotal Labor</b>                 |       |                      | <b>1,267.00</b>   |
|                                       |       | <b>Task Subtotal</b> | <b>\$1,267.00</b> |

Task: 166 Hayden Hills

### Labor Charges

|                                       | Hours | Rate   | Amount        |
|---------------------------------------|-------|--------|---------------|
| Engineer / Scientist / Specialist III |       |        |               |
| Weiss, Jeffrey                        | 3.70  | 130.00 | 481.00        |
| Engineer / Scientist / Specialist II  |       |        |               |
| Hlavaty, Heather                      | 5.00  | 95.00  | 475.00        |
|                                       | 8.70  |        | 956.00        |
| <b>Subtotal Labor</b>                 |       |        | <b>956.00</b> |

PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.

Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.

|         |             |                     |         |    |
|---------|-------------|---------------------|---------|----|
| Project | 23270F55.03 | JOB3 Project Review | Invoice | 89 |
|---------|-------------|---------------------|---------|----|

**Task Subtotal** **\$956.00**

**Job Subtotal** **\$2,223.00**

**Total this Invoice** **\$2,223.00**

Thank you in advance for your prompt processing of this invoice. If you have any questions, please contact your Barr Project Manager, Jeff Weiss Phone: 952-832-2706 or E-Mail: [jweiss@barr.com](mailto:jweiss@barr.com).

**INVOICE**

|              |
|--------------|
| Invoice Date |
| 05/03/18     |

|                |           |
|----------------|-----------|
| Invoice Number | Ad Number |
| 595807         | 807526    |

|        |
|--------|
| Terms  |
| Net 30 |

ELM CREEK WATERSHED MGMT COMMISSION  
 JUDIE ANDERSON  
 3235 FERNBROOK LN  
 PLYMOUTH, MN 55447

|              |             |
|--------------|-------------|
| Check Number | Amount Paid |
|              |             |

Account # 419241 \$336.68

| ACCOUNT NUMBER | START DATE | STOP DATE | EDITION DATE | ACCOUNT REPRESENTATIVE    |
|----------------|------------|-----------|--------------|---------------------------|
| 419241         | 04/26/18   | 05/03/18  | 05/03/18     | Osseo Legals 952-392-6829 |

Please return the upper portion with your payment. To pay by credit card, please call 763-742-2494 or 877-326-3600.

| PUBLICATION    | DATE       | AD#    | CLASS | DESCRIPTION/TAG LINE           | TYPE | SIZE       | QTY/<br>TIMES | AMOUNT |
|----------------|------------|--------|-------|--------------------------------|------|------------|---------------|--------|
| Osseo MG Press | 05/03/2018 | 807526 | 155   | Minor Planned Amendment Notice | L    | 1.0 X 9.44 | 2             | 336.68 |

|            |        |
|------------|--------|
| Net Amount | 336.68 |
| Shipping   | 0.00   |
| Tax        | 0.00   |
| Amount Due | 336.68 |

595807

# AFFIDAVIT OF PUBLICATION

STATE OF MINNESOTA ) ss  
COUNTY OF HENNEPIN

Darlene MacPherson being duly sworn on an oath, states or affirms that he/she is the Publisher's Designated Agent of the newspaper(s) known as:

Osseo MG Champlin Dayton Press

with the known office of issue being located in the county of:

HENNEPIN

with additional circulation in the counties of:  
HENNEPIN

and has full knowledge of the facts stated below:

- (A) The newspaper has complied with all of the requirements constituting qualification as a qualified newspaper as provided by Minn. Stat. §331A.02.
- (B) This Public Notice was printed and published in said newspaper(s) once each week, for 2 successive week(s); the first insertion being on 04/26/2018 and the last insertion being on 05/03/2018.

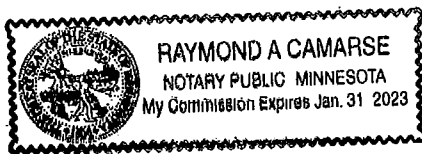
## MORTGAGE FORECLOSURE NOTICES

Pursuant to Minnesota Stat. §580.033 relating to the publication of mortgage foreclosure notices: The newspaper complies with the conditions described in §580.033, subd. 1, clause (1) or (2). If the newspaper's known office of issue is located in a county adjoining the county where the mortgaged premises or some part of the mortgaged premises described in the notice are located, a substantial portion of the newspaper's circulation is in the latter county.

By: D. MacPherson  
Designated Agent

Subscribed and sworn to or affirmed before me on 05/03/2018 by Darlene MacPherson.

[Signature]  
Notary Public



### Rate Information:

(1) Lowest classified rate paid by commercial users for comparable space:

\$17.90 per column inch

Ad ID 807526

## ELM CREEK WATERSHED MANAGEMENT COMMISSION LEGAL NOTICE NOTICE OF PUBLIC MEETING

TO WHOM IT MAY CONCERN:

Notice is hereby given that the Elm Creek Watershed Management Commission will meet at Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN, on Wednesday, May 9, 2018, at 11:30 a.m., or as soon thereafter as the matter may be heard, for a public meeting on a proposed management plan amendment.

The Commission proposes to amend its Third Generation Watershed Management Plan to adopt revisions to its 2018 Capital Improvement Program (CIP).

The following projects would be added:

Hickory Drive Stormwater Improvement, Medina, est cost \$225,000, Comm share in 2019 \$56,250

SE Corcoran Wetland Restoration, Corcoran, est cost \$400,000, Comm share in 2019 \$100,000

Downtown Regional Stormwater Pond, Corcoran, est cost \$50,000, Comm share in 2019 \$10,000

Elm Creek Stream Restoration Ph III, Champlin, est cost \$400,000, Comm share in 2018 \$100,000

Downs Road Trail Raingarden, Champlin, est cost \$300,000, Comm share in 2018 \$75,000

Elm Creek Stream Restoration Ph IV, Champlin, est cost \$600,000, Comm share in 2019 \$150,000

Lowell Road Raingarden, Champlin, est cost \$400,000, Comm share in 2019 \$100,000

Rush Creek Headwaters SWA BMP Implementation, Corcoran/Rogers, est cost \$200,000, Comm share in 2020 \$50,000

Funding for the following project would be shifted:

Stone's Throw Wetland, Corcoran, est cost \$450,000, shift \$112,500 from 2018 to 2019

The remaining projects on the CIP are unchanged.

The Elm Creek watershed includes parts of the cities of Champlin, Corcoran, Dayton, Maple Grove, Medina, Plymouth and Rogers.

Persons who desire to be heard with reference to the proposed amendment will be heard at this meeting. Written comments may be submitted to Doug Baines, chair of the Elm Creek Commission, c/o JASS, 3235 Fernbrook Lane, Plymouth, MN 55447, or emailed to judie@jass.biz. Auxiliary aids for persons with handicaps are available upon request at least seven days in advance. Please contact Judie Anderson at 763-553-1144 to make arrangements.

/s/ Doug Baines, Chair  
Elm Creek Watershed Management Commission

By order of the Elm Creek Watershed Management Commission

Published in

The Press

April 26, May 3, 2018  
807526

Johnson & Company, Ltd.  
3255 Fernbrook Lane North  
Minneapolis, MN 55447  
(952) 525-9500

ELM CREEK WATERSHED MANAGEMENT COMMISSION  
3235 FERNBROOK LANE N  
PLYMOUTH, MN 55447

Client # : 4274

Invoice Number : 35792

Invoice Date : Tuesday, April 17, 2018

For Professional Services Rendered :

Preparation of report on audited financial statements for the year ended December 31,  
2017.

4,500.00

Total Invoice Amount

\$4,500.00

**Invoice**

May 7, 2018

Invoice No: 11802802

Judie Anderson  
Elm Creek Watershed Management Comm.  
3235 Fernbrook Lane  
Plymouth, MN 55447



Responsive partner.  
Exceptional outcomes.

Project Manager Diane Spector

Project B1507-0003 Rush Creek Headwaters SWA

**Professional Services Through April 30, 2018**

Phase 02 Report

Report

**Professional Personnel**

|                    | Hours | Rate   | Amount          |
|--------------------|-------|--------|-----------------|
| Berry, Thomas      | 3.00  | 151.00 | 453.00          |
| Kaczmarek, Hagen   | 16.80 | 114.00 | 1,915.20        |
| Spector, Diane     | 6.50  | 185.00 | 1,202.50        |
| Strom, Jeffrey     | 7.50  | 137.00 | 1,027.50        |
| Zhang, Lu          | 2.00  | 114.00 | 228.00          |
| Totals             | 35.80 |        | 4,826.20        |
| <b>Total Labor</b> |       |        | <b>4,826.20</b> |

**Phase Total \$4,826.20**

Phase 03 Meetings and Reporting

Meetings and Reporting

**Professional Personnel**

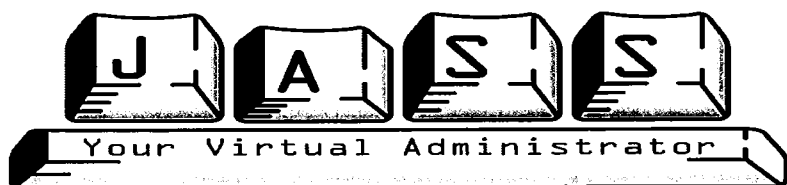
|                    | Hours | Rate   | Amount       |
|--------------------|-------|--------|--------------|
| Kaczmarek, Hagen   | .80   | 114.00 | 91.20        |
| Totals             | .80   |        | 91.20        |
| <b>Total Labor</b> |       |        | <b>91.20</b> |

**Phase Total \$91.20**

**Total Invoice Amount \$4,917.40**

|                        | Current         | Prior            | Total            |
|------------------------|-----------------|------------------|------------------|
| <b>Billing Summary</b> | <b>4,917.40</b> | <b>50,413.92</b> | <b>55,331.32</b> |

INVOICES ARE DUE UPON PRESENTATION. Subject to 1-1/2% 18% Annum interest/finance charge. Please reference the invoice number when sending payment. Federal Tax ID #41-1520095 -Wenck Associates, Inc.-1800 Pioneer Creek Center PO Box 249- Maple Plain, MN 55359-0249 Toll Free:800-472-2232 Main:763-479-4200 E-mail:accounting@wenck.com Web www.wenck.com



3235 Fernbrook Lane  
Plymouth MN 55447

Elm Creek Watershed Management Commission  
3235 Fernbrook Lane  
Plymouth, MN 55447

8-May-18

Total by  
Project Area

|   |        |        |          |            |
|---|--------|--------|----------|------------|
| Administrative                          | 2.54   | 55.00  | 139.70   |            |
| Administrative                          | 69.15  | 60.00  | 4,149.00 |            |
| Admin - Offsite                         | 4.89   | 65.00  | 317.85   |            |
| Office Support                          | 5.00   | 200.00 | 1,000.00 |            |
| Storage Unit                            | 1.00   | 112.42 | 112.42   |            |
| Data Processing/File Mgmt               | 1.00   | 55.00  | 55.00    |            |
| Admin - Reimbursable Expense            | 469.22 | 1.00   | 469.22   | 6,243.190  |
| Admin - TAC support                     | 4.03   | 60.00  | 241.80   |            |
| Admin - TAC support offsite             | 3.03   | 65.00  | 196.95   |            |
| TAC Support - Reimbursable Expense      | 313.13 | 1.00   | 313.13   | 751.880    |
| Website                                 | 2.25   | 55.00  | 123.75   |            |
| Website                                 |        | 60.00  | 0.00     |            |
| Website - Reimbursable Expense          |        | 1.00   | 0.00     |            |
| Web Domain, hosting                     |        | 1.00   | 0.00     | 123.750    |
| Annual Reporting/Work Plans             |        | 55.00  | 0.00     |            |
| Annual Reporting                        | 24.47  | 60.00  | 1,468.20 |            |
| Annual Report - Reimbursable Expense    | 754.60 | 1.00   | 754.60   | 2,222.800  |
| Project Reviews - Secre                 |        | 55.00  | 0.00     |            |
| Project Reviews - Admin                 | 12.50  | 60.00  | 750.00   |            |
| Project Reviews - Reimbursable Expense  | 179.43 | 1.00   | 179.43   | 929.430    |
| WCA - Admin                             | 1.16   | 60.00  | 69.60    |            |
| WCA - Reimbursable Expense              | 36.99  | 1.00   | 36.99    | 106.590    |
| CIPs - Administrative                   | 1.75   | 60.00  | 105.00   |            |
| CIPs - reimbursables                    | 87.05  | 1.00   | 87.05    | 192.050    |
| Rush Creek SWA - Admin                  | 1.30   | 60.00  | 78.00    |            |
| Rush Creek SWA - offsite                |        | 65.00  | 0.00     |            |
| Rush Creek SWA - reimbursable expense   | 33.72  | 1.00   | 33.72    | 111.720    |
| Fish Lake CWLA - Admin                  |        | 55.00  | 0.00     |            |
| Fish Lake CWLA - Admin                  |        | 60.00  | 0.00     |            |
| Fish Lake CWLA - Reimbursables          | 37.44  | 1.00   | 37.44    | 37.440     |
| Plan Amendment - Secre                  | 0.50   | 55.00  | 27.50    |            |
| Plan Amendment - Admin                  | 3.35   | 60.00  | 201.00   |            |
| Plan amendment - reimbursable           | 13.25  | 1.00   | 13.25    | 241.750    |
| Floodplain mapping reimbursable expense | 1.43   | 1.00   | 1.43     | 1.430      |
| Invoice Total                           |        |        |          | 10,962.030 |



Submit by Email

Print Form

# Elm Creek Watershed Management Commission Request for Plan Review and Approval

Received 4/23/18Project No. 2018-013Fee Rec'd \$6,150.00EC SC WM PSC  
Please print clearly.

Administrative Office

3236 Fernbrook Lane

Plymouth, MN 55447

Ph: 763-553-1144

Fax: 763-553-9326

Email: [judie@lss.blz](mailto:judie@lss.blz)

Date: \_\_\_\_\_

Fee Submitted: \$ \_\_\_\_\_

Applicant: Wayzata Public SchoolsAddress: 210 County Road 101 NCity: WayzataZip Code: 55391Phone: ( ) 763-745-5150

Cell: ( ) \_\_\_\_\_

Email: jon.deutsch@wayzata.k12.mn.usAgent: Anderson-Johnson Associates, Inc.Address: 7575 Golden Valley Road, Suite 200City: MinneapolisZip Code: 55427Phone: ( ) 763-644-7129

Cell: ( ) \_\_\_\_\_

Email: mike@ajaino.net

## Application for Approval of: (check all the applicable items)

☐

Residential Development

☒

Commercial/Industrial Development

☐

Floodplain Alteration

☐

Drainage Alteration

☐

Other (explain): \_\_\_\_\_

☐

Road Construction

☐

Wetland Determination

☐

Wetland Delineation

☐

Wetland Alteration

☐

WCA Exemption Certificate

☐

Wetland Replacement Plan

☐

Wetland Banking Application

☐

Pond Excavation

☐

Issuance of General Permit

Project Name: New Wayzata Elementary SchoolProject Location - City or Town: PlymouthPID#: 0611822320001Total Acres: 23.658Acres Disturbed: 18.661Acres Impervious Before Development: 0.00Acres Impervious After Development (incl. gravel roads and parking areas): 4.136

For Residential Developments: Number of Lots: \_\_\_\_\_

Lot Density: \_\_\_\_\_

Anticipated Project Start Date: Spring 2018

Remarks: \_\_\_\_\_

Applicant's Signature: James R. WestrumPrint Name: Executive DirectorFinance and Business

In order for a project to be considered by the Commission, a complete application packet must be received in the Commission's administrative office at least TEN BUSINESS DAYS prior to the Commission's next regular meeting. Action by the Commission will be predicated on factors such as completeness of the application documents and complexity of the project, etc. The Commission normally meets on the second Wednesday of the month.

Submit this form to the City along with two paper and one electronic copy of the required plans and the appropriate fee (check made payable to "Elm Creek Watershed Management Commission"). The City will forward one paper copy, the electronic copy and the fee payment to the Commission. The Commission will transmit a letter to the applicant following approval. For submittal requirements, see the Commission Plan Review Requirements packet. A copy of this form and the fee schedule can be downloaded from:

<http://www.elmcreekwatershed.org/pages/ApplicationRequirements/>

## AUTHORIZATION - to be prepared by City

Requested by City of PlymouthSignature Trevor QuastName Trevor QuastTitle Sr. Eng. Tech.Phone 763/509-5524Date 4/23/18

# elm creek

## Watershed Management Commission

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ADMINISTRATIVE OFFICE  
3235 Fernbrook Lane  
Plymouth, MN 55447  
PH: 763.553.1144  
E-mail: [judie@jass.biz](mailto:judie@jass.biz)

TECHNICAL OFFICE  
Hennepin County Public Works  
Department of Environment and Energy  
701 Fourth Ave. South, Suite 700  
Minneapolis, MN 55415  
PH: 612.348.7338  
E-mail: [james.kujawa@hennepin.us](mailto:james.kujawa@hennepin.us)

### **Enclave at Elm Creek** **Plymouth, Project #2017-036**

**Project Overview:** This site is a 73 acre parcel located on CSAH 101 and Prairie Creek Rd, about ¾ miles north of TH 55 (PID=0611822320001). The property will be developed into 111 residential lots and a new school site. The Enclave at Elm Creek is the residential portion of the project. It is located in the northerly 2/3 of the site (approximately 49 acres). The school site will encompass approximately 24 acres in the SW corner of the property. At this time, the applicant is requesting a conditional review and decision for phase I which includes 23 single family lots, the construction of 54th Ave and Yellowstone Lane. Stormwater, grading and erosion control plans were submitted for the complete 111 lot residential portion of the property. Limited stormwater management plans and no grading and erosion control plans were submitted for the future school site on the parcel.

**Applicant:** West Plymouth Development, Inc., Attn. Justin Bannwarth, 10850 Old County Road 15 Suite 200, MN 55441. Phone: 763-205-3961. Email: [justin@gonyeacompany.com](mailto:justin@gonyeacompany.com)

**Engineer/Agent:** Sathre-Bergquist, Inc., Attn. Christian Froemke, Sathre-Bergquist, 150 South Broadway, Wayzata, MN 55391. Phone: 952-476-6000. Email: [cfroemke@sathre.com](mailto:cfroemke@sathre.com)

#### **Exhibits:**

- 1) Elm Creek Watershed Management Commission Request for Plan Review and Approval. Received August 16, 2017.
- 2) Fees for 63 acres of new residential, low density development. \$3,200. Additional \$5,420 fee received September 1, 2017 (see item 2 of the findings below)
- 3) Stormwater Management Plan for Speak the Work Church Development (current owner of the parcel) by Advanced Engineering and Environmental Services Inc., dated July 2017.
- 4) Site plans for the Enclave at Elm Creek 1<sup>st</sup> Addition by Sathre-Bergquist, Inc., dated July 18, 2017, with all sheets, except 16 to 19 having last revision date of August 10, 2017.
  - a. Sheet 1 of 28, Title Sheet
  - b. Sheets 2-6 of 28, Final Street Plan
  - c. Sheets 7-11 of 28, Final Sanitary and Watermain Plan
  - d. Sheets 12-15 of 28, Final Storm Sewer Plan
  - e. Sheets 16-19 of 28, Final Grading Plan, last revision date of September 11, 2017
  - f. Sheets 20-23 of 28, Final Erosion Control Plan
  - g. Sheets 24-28 of 28, Detail Sheets.

- 5) Emails from Sathre-Bergquist
  - a. Dated 9/11/17 and 9/18/17 requesting consideration of partial approvals contingent upon future platting and future school site development.
  - b. Dated 9/22/17 with;
    - i. Summary P8 chart for residential site plan only for total phosphorus and suspended solids.
    - ii. Pond 3 (Filter basin) updated details.
  - c. Dated 10/6/17 with;
    - i. Figure 3, Treatment Modifications for Residential Area Only
    - ii. Site Option B2 south side with pond.
- 6) SWPPP plan (3 of 3 sheets) dated July 18, 2017.
- 7) Email from Jim Renneberg, City of Plymouth Engineer dated 10/9/17.

**Findings:**

- 1) A complete application was received August 16, 2017. The initial 60-day review period for a decision from the ECWMC, per MN Statute 15.99, expires on October 15, 2017.
- 2) Fees associated for our review were based on the total site area and project type. Based on plan submittal, this site will have approximately 24 acres of institutional development, 49 acres of low density residential development and floodplain review. ECWMC fees received were \$8,620 for this site review.
- 3) Per the ECWMC 3<sup>rd</sup> generation stormwater management plan, rules and standards, the complete site will be reviewed for stormwater management (Rule D), floodplain alteration (Rule F) and buffer strips, (Rule I). Grading, erosion and sediment control reviews will be provided only on the residential portion of this parcel.
- 4) General Drainage-
  - a. Currently 22.7 acres drain south into an existing wetland and its associated floodplain/ditch. This then flows east and south before connecting into the main stem of Elm Creek 1,600 feet from this project behind the Wayzata High School. The rest of the site (40 acres  $\pm$ ) flows north into DNR wetland 455W. This wetland outlets to the east where it meets the main stem of Elm Creek about 1.2 miles from this project in the large floodplain complex of east of Peony Lane.
  - b. Proposed conditions will take the future school site (21.56 acres) and 4.95 acres of residential area to the south existing wetland and its associated floodplain/ditch. The school site will treat their own water in a future stormwater management system. The 4.95 acres residential section will be treated in a filtration basin prior to discharge into the SE corner of the site. The remainder of the residential area will flow north before discharging into 2 treatment ponds which will outlet into DNR wetland 455W.
    - i. New impervious areas proposed = 20.8 acres
- 5) **Note; Stormwater management information is based on the construction, operation and maintenance of Pond 4 south of the future school site. The function of this pond is a large component of the abstraction (46,452 cubic feet of volume) and nutrient (2.1 lbs/year phosphorus) controls proposed for the parcel. Construction and timing of the school site is anticipated, but not guaranteed at this time. At this time, the applicant only requests approval of the mass grading for the residential section of**

Minnesota Department of Natural Resources  
Ecological and Water Resources Division  
Central Region Headquarters  
1200 Warner Road, St Paul MN 55106

05/08/2018

Judie Anderson, Administrator  
Elm Creek Watershed Management Commission  
3235 Fernbrook Lane  
Plymouth, MN 55447

Re: Minor Plan Amendment: Elm Creek Watershed Management Plan - Capital Improvement Plan

The DNR appreciates the opportunity to review and comment on the Elm Creek Watershed Management Commission's Minor Plan Amendment to the Capital Improvement Plan.


We have reviewed the revisions to the Plan and note that a number of the projects on the updated CIP involve work within Public Waters. While we support these projects in concept, we encourage early (pre-permit application) coordination with DNR to obtain our input during the preliminary design stage.

Specifically, the preliminary project descriptions for the proposed stream projects suggest that natural channel design principals (pattern, dimension, and profile) may not be fully addressed and that the designs may rely too much on hard structure such as rip rap. DNR highly recommends using wood for toe stabilization given its habitat value. Toe-wood sod mats have been installed successfully on many other streams within the state to stabilize banks, protect infrastructure and provide habitat.

Also, please keep in mind that EAWs may be required for some of the projects impacting Public Waters per [Minnesota Environmental Review EAW](#) Rules, **4410.4300 Subp's. 26, 27 and 336a.**

Please contact Area Hydrologist Jason Spiegel at (651) 259 - 5822 or [Jason.spiegel@state.mn.us](mailto:Jason.spiegel@state.mn.us) for further consultation about DNR permit requirements and preferred project designs.

Sincerely,



Kate Drewry, District Hydrologist  
[Kate.Drewry@state.mn.us](mailto:Kate.Drewry@state.mn.us)  
651-259-5784

cc. Dan Lais, EWR Regional Manager  
Jeanne Daniels, EWR District Manager  
Nick Proulx, EWR Stream Specialist

Jason Spiegel, EWR Area Hydrologist  
Becky Horton, EWR Environmental Assessment Ecologist  
Steve Christopher, BWSR Board Conservationist

**Elm Creek Watershed Management Commission**  
**Proposed 2019 Member Assessments**

| 2017          | 2016 Taxable<br>Market Value | 2017 Budget Share |                   | Increase over Prev Year |              |
|---------------|------------------------------|-------------------|-------------------|-------------------------|--------------|
|               |                              | %age              | Dollars           | %age                    | Dollars      |
| Champlin      | 410,505,694                  | 3.85%             | 8,458.23          | -3.24%                  | -283         |
| Corcoran      | 709,731,668                  | 6.66%             | 14,623.61         | 0.77%                   | 112          |
| Dayton        | 501,487,424                  | 4.70%             | 10,332.86         | 3.60%                   | 359          |
| Maple Grove   | 5,651,956,239                | 53.01%            | 116,455.30        | 0.42%                   | 486          |
| Medina        | 891,170,325                  | 8.36%             | 18,362.05         | 6.82%                   | 1,172        |
| Plymouth      | 905,845,273                  | 8.50%             | 18,664.42         | 6.92%                   | 1,208        |
| Rogers        | 1,592,062,304                | 14.93%            | 32,803.53         | 4.08%                   | 1,286        |
| <b>Totals</b> | <b>10,662,758,927</b>        | <b>100.00%</b>    | <b>219,700.00</b> | <b>2.02%</b>            | <b>4,340</b> |
| 2018          | 2017 Taxable<br>Market Value | 2018 Budget Share |                   | Increase over Prev Year |              |
|               |                              | %age              | Dollars           | %age                    | Dollars      |
| Champlin      | 435,155,559                  | 3.82%             | 8,593.96          | 1.60%                   | 136          |
| Corcoran      | 742,511,061                  | 6.52%             | 14,663.98         | 0.28%                   | 40           |
| Dayton        | 563,384,729                  | 4.95%             | 11,126.38         | 7.68%                   | 794          |
| Maple Grove   | 5,908,582,953                | 51.86%            | 116,689.62        | 0.20%                   | 234          |
| Medina        | 950,777,365                  | 8.35%             | 18,777.07         | 2.26%                   | 415          |
| Plymouth      | 1,108,795,705                | 9.73%             | 21,897.80         | 17.32%                  | 3,233        |
| Rogers        | 1,683,675,595                | 14.78%            | 33,251.20         | 1.36%                   | 448          |
| <b>Totals</b> | <b>11,392,882,967</b>        | <b>100.00%</b>    | <b>225,000.00</b> | <b>2.41%</b>            | <b>5,300</b> |
| 2019          | 2018 Taxable<br>Market Value | 2019 Budget Share |                   | Increase over Prev Year |              |
|               |                              | %age              | Dollars           | %age                    | Dollars      |
| Champlin      | 482,451,066                  | 3.96%             | 9,131.64          | 6.26%                   | 538          |
| Corcoran      | 805,284,845                  | 6.62%             | 15,242.10         | 3.94%                   | 578          |
| Dayton        | 657,235,681                  | 5.40%             | 12,439.89         | 11.81%                  | 1,314        |
| Maple Grove   | 6,195,629,078                | 50.90%            | 117,268.32        | 0.50%                   | 579          |
| Medina        | 1,017,473,342                | 8.36%             | 19,258.32         | 2.56%                   | 481          |
| Plymouth      | 1,218,746,394                | 10.01%            | 23,067.93         | 5.34%                   | 1,170        |
| Rogers        | 1,795,887,426                | 14.75%            | 33,991.82         | 2.23%                   | 741          |
| <b>Totals</b> | <b>12,172,707,832</b>        | <b>100.00%</b>    | <b>230,400.00</b> | <b>2.40%</b>            | <b>5,400</b> |

Elm Creek Watershed Management Commission - Proposed 2019 Operating Budget

|    | A                        | B                                      | C                                     | D                          | AC            | AE            | AQ            | AR             | AS                        | AT          | AU  | AV               | AW                                |
|----|--------------------------|--|---------------------------------------|----------------------------|---------------|---------------|---------------|----------------|---------------------------|-------------|---|------------------|-----------------------------------|
| 3  |                          |  |                                       |                            | 2014<br>Final | 2015<br>Final | 2016<br>Final | 2017<br>Budget | 2017<br>Final             | 2018 Budget |   | Proposed<br>2019 |                                   |
| 4  | GENERAL OPERATING BUDGET |  |                                       |                            |               |               |               |                |                           |             |   |                  |                                   |
| 5  | Operating Expenses       |  |                                       |                            |               |               |               |                |                           |             |   |                  |                                   |
| 6  |                          | Administrative                         |                                       |                            | 69,923        | 75,616        | 84,998        | 90,000         | 86,212                    | 90,000      |   | 90,000           |                                   |
| 7  |                          | Watershed-wide TMDL Admin              |                                       |                            | 6,904         | 43,240        | 1,432         |                |                           | 2,500       | implementation  | 1,500            |                                   |
| 8  |                          | Grant Writing                          |                                       |                            |               | 0             |               | 5,000          | 0                         | 4,000       |   | 4,000            |                                   |
| 9  |                          | Website                                |                                       |                            | 1,755         | 2,569         | 3,794         | 6,000          | 1,807                     | 6,000       | add Facebook  | 5,000            |                                   |
| 10 |                          | Legal Services                         |                                       |                            | 377           | 464           | 1,041         | 2,000          | 0                         | 2,000       |   | 2,000            |                                   |
| 11 |                          | Audit                                  |                                       |                            | 4,500         | 4,500         | 4,500         | 5,000          | 4,500                     | 5,000       |   | 5,000            |                                   |
| 12 |                          | Insurance                              | (dividend 2017 = \$487)               |                            | 3,014         | 2,349         | 3,456         | 3,800          | 2,355                     | 3,900       |   | 3,900            |                                   |
| 13 |                          | Contingency                            |                                       |                            | 0             | 0             |               | 2,000          | 983                       | 1,000       |   | 1,000            |                                   |
| 14 |                          |  | Subtotal                              |                            | 86,473        | 128,738       | 99,221        | 113,800        | 95,857                    | 114,400     |   | 112,400          |                                   |
| 15 |                          | Project Reviews                        |                                       |                            |               |               |               |                |                           |             |   |                  |                                   |
|    |                          |  |                                       |                            |               |               |               |                |                           |             | HCEE<br>reimbursement<br>(lines 16 and 22)<br>= 2.5% increase |                  |                                   |
| 16 |                          | Technical - HCEE                       |                                       |                            | 72,000        | 88,509        | 77,820        | 98,000         | 90,970                    | 95,000      |   | 97,400           |                                   |
| 17 |                          | Technical - HCEE - Floodplain modeling |                                       |                            |               |               |               |                |                           | 46,386      |   | 46,386           |                                   |
| 18 |                          | Technical Support - Consultant         |                                       |                            | 7,666         | 13,408        | 9,780         | 15,000         | 8,424                     | 12,000      |   | 15,000           |                                   |
| 19 |                          | Admin Support                          |                                       |                            | 11,318        | 8,731         | 12,310        | 11,000         | 13,425                    | 14,000      |   | 15,000           |                                   |
| 20 |                          |  |                                       | Subtotal                   | 90,984        | 110,648       | 99,910        | 124,000        | 112,819                   | 167,386     |   | 173,786          |                                   |
| 21 |                          | Wetland Conservation Act               |                                       |                            |               |               |               |                |                           |             |   |                  |                                   |
| 22 |                          |  | WCA Expense - HCEE                    |                            | 10,145        | 11,889        | 12,834        | 12,000         | 12,178                    | 17,750      |   | 18,200           |                                   |
| 23 |                          |  | WCA Expense - Legal                   |                            | 290           | 0             | 0             | 500            | 512                       | 500         |   | 500              |                                   |
| 24 |                          |  | WCA Expense - Admin                   |                            | 1,645         | 917           | 1,127         | 2,000          | 1,680                     | 1,500       |   | 2,000            |                                   |
| 25 |                          |  |                                       | Subtotal                   | 12,080        | 12,806        | 13,961        | 14,500         | 14,370                    | 19,750      |   | 20,700           |                                   |
| 26 |                          | Water Monitoring                       |                                       |                            |               |               |               |                |                           |             |   |                  |                                   |
| 27 |                          |  | Stream Monitoring                     |                            |               |               |               |                |                           |             |   |                  |                                   |
|    |                          |  |                                       |                            |               |               |               |                |                           |             |   |                  | proposing<br>biennial<br>contract |
| 28 |                          |  | Stream Monitoring - USGS              |                            | 19,830        | 19,750        | 20,874        | 24,177         | 24,177                    | 24,900      | 40,000  | 41,000           |                                   |
| 29 |                          |  | Stream Monitoring - TRPD              |                            |               |               |               |                |                           |             |   | 6,225            |                                   |
| 30 |                          |  | Extensive Stream Monitoring           |                            |               | 6,000         | 6,120         | 7,000          | 7,120                     | 7,600       |   | 650              |                                   |
| 31 |                          |  | DO Longitudinal Survey                |                            |               | 0             | 0             | 500            | 500                       | 1,000       |   |                  |                                   |
| 32 |                          |  | Gauging Station - Elec Bill           |                            | 181           | 197           | 210           | 220            | 206                       | 250         |   | 250              |                                   |
| 33 |                          |  | Rain Gauge Network                    |                            |               | 0             | 0             | 100            |                           | 100         |   | 100              |                                   |
| 34 |                          |  | Lake Monitoring                       |                            |               |               |               |                |                           |             |   |                  |                                   |
| 35 |                          |  | Lake Monitoring - CAMP                |                            | 950           | 400           | 480           | 1,200          | 200                       | 720         |   | 760              |                                   |
| 36 |                          |  | Lake Monitoring - TRPD                |                            | 3,600         | 3,000         |               |                |                           |             |   |                  |                                   |
| 37 |                          |  |                                       | Sentinel Lakes             |               |               | 3,100         | 2,470          | 2,325                     | 3,300       |   | 8,100            |                                   |
| 38 |                          |  |                                       | Additional lake            |               |               | 0             | 618            | 775                       | 825         |   | 1,500            |                                   |
| 39 |                          |  |                                       | Aquatic Vegetation Surveys |               |               | 0             | 1,029          |                           | 1,100       |   | 325              |                                   |
| 40 | v                        |  | Source Assessment                     |                            |               |               |               | 2,000          |                           | 0           |   |                  |                                   |
| 41 | v                        |  | Watershed-wide TMDL - Followup - TRPD |                            |               |               | 13,600        | 10,000         | 668                       | 5,000       |   | 2,500            |                                   |
| 42 |                          |  | Wetland Monitoring - WHEP             |                            | 4,000         | 4,000         | 4,000         | 4,000          | 4,000                     | 4,000       |   | 4,000            |                                   |
| 43 |                          |  | Stream Health - SHEP                  |                            | 6,000         | 6,000         |               | 0              | Program no longer offered |             |   |                  |                                   |
| 44 |                          |  |                                       | Subtotal                   | 34,561        | 39,347        | 48,384        | 53,314         | 39,971                    | 48,795      |   | 65,410           |                                   |

Elm Creek Watershed Management Commission - Proposed 2019 Operating Budget

|    | A | B | C  | D        | AC            | AE            | AQ            | AR             | AS            | AT          | AU  | AV               | AW |
|----|---|---|--|----------|---------------|---------------|---------------|----------------|---------------|-------------|---|------------------|----|
| 3  |   |   |  |          | 2014<br>Final | 2015<br>Final | 2016<br>Final | 2017<br>Budget | 2017<br>Final | 2018 Budget |   | Proposed<br>2019 |    |
| 45 |   |   | Education                                      |          |               |               |               |                |               |             |   |                  |    |
| 46 |   |   | Education - City/Citizen Programs              |          | 1,060         | 917           | 3,261         | 4,000          | 4,066         | 4,000       |   | 4,000            |    |
| 48 |   |   | WMWA General Admin                             |          | 3,750         | 9,750         | 3,750         | 4,000          | 3,750         | 4,000       |   | 5,000            |    |
| 49 |   |   | WMWA Implementa Activities incl Watershed PREP |          | 6,000         |               | 6,000         | 6,000          | 6,000         | 6,500       |   | 6,500            |    |
| 51 |   |   | R Garden Workshop/Intensive BMPs               |          | 3,000         | 1,700         | 2,114         | 2,000          | 2,294         | 2,000       |   | 2,000            |    |
| 52 |   |   | Education Grants                               |          |               | 1,000         |               | 2,000          | 225           | 2,000       |   | 1,000            |    |
| 53 |   |   | Macroinvertebrate Monitoring-River Watch       |          | 6,000         | 6,000         | 3,000         | 6,000          | 5,000         | 3,000       |   | 3,000            |    |
| 54 |   |   | Ag Specialist                                  |          |               |               |               |                |               |             |   |                  |    |
| 55 |   |   |  | Subtotal | 19,810        | 19,367        | 18,125        | 24,000         | 21,335        | 21,500      |   | 21,500           |    |
| 60 |   |   | Management Plan                                |          |               |               |               |                |               |             |   |                  |    |
| 61 |   |   | Plan Amendments                                |          | 3,953         | 9,165         | 1,699         | 5,000          | 1,370         | 2,000       |   | 2,000            |    |
| 62 |   |   | Local Plan Review                              |          |               |               |               | 2,000          |               | 8,000       | Due 12/2018<br>Consider<br>\$10,000/set-aside<br>beginning 2020 |                  |    |
| 63 |   |   | Contribution to 4th Generation Plan            |          |               |               |               |                |               |             |   |                  |    |
| 64 |   |   |  | Subtotal | 3,953         | 9,165         | 1,699         | 7,000          | 1,370         | 10,000      |   | 2,000            |    |
| 65 |   |   | CIPs, Grants, Special Projects, Studies        |          |               |               |               |                |               |             |   |                  |    |
| 66 |   |   | Capital Outlay - CIPs - Ad Valorem             |          |               |               | 246,157       | 249,000        | 2,244         | 490,000     |   | 462,500          |    |
| 67 |   |   | Grants   |          |               |               |               |                | 212,076       |             |   |                  |    |
| 68 |   |   | Projects ineligible for ad valorem             |          |               | 2,608         |               | 50,000         |               | 50,000      |   | 50,000           |    |
| 70 |   |   | Upper and South Metro Miss TMDL                |          | 0             |               |               | 0              |               | 0           |   | 0                |    |
| 72 |   |   | Studies, Subwatershed Assessments              |          | 5,806         | 684           | 6,484         | 35,000         | 4,000         | 35,000      |   | 35,000           |    |
| 74 |   |   |  | Subtotal | 5,806         | 3,292         | 252,641       | 334,000        | 218,320       | 575,000     |   | 547,500          |    |
| 77 |   |   | Contingency                                    |          |               | 0             |               | 0              |               | 0           |   | 0                |    |
| 78 |   |   |  | Subtotal | 0             | 0             | 0             | 0              | 0             | 0           |   | 0                |    |
| 79 |   |   | Total Op Exp (lines 14,20,25,44,55,64,74,78)   |          | 253,667       | 323,363       | 533,941       | 670,614        | 504,042       | 956,831     |   | 943,296          |    |
| 80 |   |   |  |          |               |               |               |                |               |             |   |                  |    |

Elm Creek Watershed Management Commission - Proposed 2019 Operating Budget

|     | A                             | B  | C | D                                     | AC            | AE            | AQ            | AR             | AS            | AT          | AU              | AV               | AW             |
|-----|-------------------------------|--|---|---------------------------------------|---------------|---------------|---------------|----------------|---------------|-------------|-----------------|------------------|----------------|
| 3   |                               |  |   |                                       | 2014<br>Final | 2015<br>Final | 2016<br>Final | 2017<br>Budget | 2017<br>Final | 2018 Budget |                 | Proposed<br>2019 |                |
| 81  | Revenue                       |  |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 82  |                               | CIPs - Ad Valorem                                      |   |                                       |               | 131,570       | 249,866       | 249,000        | 494,330       | 490,000     |                 | 462,500          |                |
| 83  |                               | Grant Revenue  |   |                                       |               |               |               |                | 125,140       |             |                 |                  |                |
| 84  |                               | Floodplain Modeling                                    |   |                                       |               |               |               |                |               | 46,386      |                 | 46,386           |                |
| 85  |                               | Project Review Fees                                    |   |                                       | 98,670        | 75,705        | 62,192        | 100,000        | 78,125        | 80,000      |                 | 80,000           |                |
| 86  |                               | Water Monitoring - TRPD Co-op Agmt                     |   |                                       | 5,170         | 6,000         | 5,133         | 6,500          | 5,036         | 6,500       |                 | 5,000            |                |
| 87  |                               | BMP Implementation                                     |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 88  |                               | WCA Fees   |   |                                       | 4,990         | 2,500         | 7,850         | 8,000          | 4,700         | 10,000      |                 | 5,000            |                |
| 89  |                               | Forfeited/Reimbursed Sureties, Reimbursement from LGUs |   |                                       | 1,113         | 1,485         | 840           | 0              | 2,289         | 0           |                 | 4,000            |                |
| 90  |                               | Membership Dues  |   |                                       | 203,000       | 209,000       | 215,360       | 219,700        | 219,700       | 225,000     | 2.415% increase | 230,400          | 2.40% increase |
| 91  |                               | Watershed-wide TMDL                                    |   |                                       |               | 12,680        |               |                |               |             |                 |                  |                |
| 92  |                               | Interest Income  |   |                                       | 77            | 83            | 915           | 100            | 5,921         | 250         |                 | 2,500            |                |
| 93  |                               | Dividend Income  |   |                                       |               |               | 2,014         |                |               | 750         |                 | 500              |                |
| 94  |                               | Miscellaneous Income                                   |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 95  |                               |  |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 96  |                               |  |   | Total Operating Revenue (lines 81-93) | 313,020       | 439,023       | 544,170       | 583,300        | 935,241       | 858,886     | 0               | 836,286          |                |
| 97  |                               |  |   | Surplus (Deficit) (lines 79, 96)      |               | 115,660       | 10,229        | 87,314         | 431,199       | 97,945      | 0               | 107,010          |                |
| 98  |                               |  |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 99  | Assets                        |  |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 100 |                               | Cash and investments                                   |   |                                       | 381,876       | 517,502       | 524,931       |                | 959,050       |             |                 |                  |                |
| 101 |                               | Restricted cash  |   |                                       |               |               | 46,000        |                | 150,571       |             |                 |                  |                |
| 102 |                               | Accounts Receivable                                    |   |                                       | 5,820         | 12,680        | 1,596         |                | 10,262        |             |                 |                  |                |
| 103 |                               | Total Assets   |   |                                       | 387,696       | 530,182       | 572,527       |                | 1,119,883     |             |                 |                  |                |
| 104 |                               |  |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 105 | Liabilities and Fund Balances |  |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 106 |                               | Accounts payable                                       |   |                                       | 29,791        | 56,617        | 42,733        |                | 54,320        |             |                 |                  |                |
| 107 |                               | WCA Escrows  |   |                                       |               |               | 46,000        |                | 150,571       |             |                 |                  |                |
| 108 |                               | Total Liabilities                                      |   |                                       | 29,791        | 56,617        | 88,733        |                | 204,891       |             |                 |                  |                |
| 109 |                               |  |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 110 | Fund Balances                 |  |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 111 |                               | Restricted for CIPs                                    |   |                                       |               | 125,342       | 129,048       |                | 621,135       |             |                 |                  |                |
| 112 |                               |  |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 113 |                               | Asssigned for projects, studies                        |   |                                       | 75,220        | 34,316        | 62,832        |                | 143,832       |             |                 |                  |                |
| 114 |                               | Assigned for other                                     |   |                                       |               |               | 1,000         |                | 0             |             |                 |                  |                |
| 115 |                               |  |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 116 |                               | Unrestricted/unassigned fund balances                  |   |                                       | 282,685       | 313,907       | 290,914       |                | 150,025       |             |                 | 43,015           |                |
| 117 |                               |  |   |                                       | 357,905       | 348,223       | 354,746       |                | 293,857       |             |                 |                  |                |
| 118 |                               |  |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 119 |                               | Total Fund Balances                                    |   |                                       | 357,905       | 473,565       | 483,794       |                | 914,992       |             |                 |                  |                |
| 120 |                               |  |   |                                       |               |               |               |                |               |             |                 |                  |                |
| 121 |                               | Total Liabilities and fund balances                    |   |                                       | 387,696       | 530,182       | 572,527       |                | 1,119,883     |             |                 |                  |                |
| 122 |                               |  |   |                                       |               |               |               |                |               |             |                 |                  |                |



# STATE OF MINNESOTA GRANT CONTRACT WITH THE ELM CREEK WATERSHED MANAGEMENT COMMISSION FOR IMPROVED FLOODPLAIN MODELING AND MAPPING

This grant contract is between the State of Minnesota, acting through its Commissioner of Natural Resources, ("State") and the Elm Creek Watershed Management Commission, 3235 Fernbrook Lane, Plymouth, Minnesota 55447 ("Grantee").

## Recitals

1. Under Minn. Stat. Section 84.026, Subdivision 2, the State is empowered to enter into this grant agreement.
2. The State agrees that updating and improving floodplain data is in the interest of the State.
3. The Grantee represents that it is duly qualified and agrees to perform all services described in this grant contract to the satisfaction of the State. Pursuant to Minnesota Statutes §16B.98 Subdivision 1, the Grantee agrees to minimize administrative costs as a condition of this grant contract.

## Grant Contract

### 1 Term of Grant Contract

- 1.1 **Effective date:** May 15, 2018, or the date the State obtains all required signatures under Minnesota Statutes §16C.05, subdivision 2, whichever is later. Per [Minn.Stat. §16B.98](#) Subd. 7, no payments will be made to the Grantee until this grant contract is fully executed. **The Grantee must not begin work under this grant contract until this contract is fully executed and the Grantee has been notified by the State's Authorized Representative to begin the work.**
- 1.2 **Expiration date:** April 30, 2020, or until all obligations have been satisfactorily fulfilled, whichever occurs first.
- 1.3 **Survival of Terms.** The following clauses survive the expiration or cancellation of this grant contract: 8. Liability; 9. State Audits; 10. Government Data Practices and Intellectual Property; 13. Publicity and Endorsement; 14. Governing Law, Jurisdiction, and Venue; and 16. Data Disclosure.

### 2 Grantee's Duties

The Grantee, who is not a state employee, will be responsible for tasks generalized below, consistent with the details included in Attachment A – *Hennepin County Proposal to Provide FEMA Floodplain Modeling and Mapping*, dated March 7, 2018, attached and incorporated hereto:

- Submit updated hydrology modeling for the watershed using either HEC-HMS or SWMM
- Submit updated stream hydraulics using HEC-RAS
- Create and submit floodway and floodplain shapefiles using HEC-RAS mapper
- Create and submit depth grids using the RAS Mapper built in to HEC-RAS
- Create and submit new work maps illustrating new SFHA and other information required by the State
- Attend kickoff, data review, and 90% progress meetings
- Prepare and submit reports documenting hydrology, hydraulics, and mapping methods and results

All work shall comply with required grants management policies and procedures set forth in [Minn.Stat. §16B.97](#), Subd. 4 (a)(1).

### 3 Time

The Grantee must comply with all the time requirements described in this grant contract. In the performance of this grant contract, time is of the essence.

## 4 Consideration and Payment

4.1 **Consideration.** The State will reimburse Grantee for all eligible products received and services performed by the Grantee under this grant contract as follows:

(a) **Compensation.** The Grantee will be reimbursed 100% for eligible project expenses, not to exceed \$92,773.00. This grant does not require a local match.

(b) **Travel Expenses.** Grantee shall not be reimbursed for travel and subsistence expenses incurred as a result of this grant contract.

(c) **Total Obligation**

The total obligation of the State for all compensation and reimbursements to the Grantee under this grant contract will not exceed \$92,773.00.

### 4.2. **Payment**

(a) **Invoices/Deliverables**

The State will pay the Grantee after the Grantee submits itemized invoices for deliverables produced or the services actually performed and the State's Authorized Representative accepts the invoices. Invoices must include the billing period of work performed and be submitted timely and with project deliverables. Reimbursement will be made in accordance with the following schedule:

- upon receipt and acceptance of Grantee's updated/new hydrologic model and technical memorandum describing assumptions and methods used.
- upon receipt and acceptance of Grantee's HEC-RAS models and documentation for detailed and non-detailed areas.
- upon receipt and acceptance of Grantee's GIS work and mapping, including depth grids, shapefiles for flood inundation areas, cross-sections, and stream centerlines.
- upon receipt and acceptance of invoice for data organization and survey location review.
- upon receipt and acceptance of completed project reporting.
- upon documentation of meeting participation and invoice for time.
- final financial reconciliation for any outstanding eligible project reimburseables.

Requested reimbursement amounts for each work task shall not exceed 120% of the amount identified for each work task in the estimated budget contained in Attachment A of this agreement. Upon project completion, financial reconciliation will be done to ensure Grantee is reimbursed for all actual costs of services and deliverables, not to exceed \$92,773.00.

(b) **Federal funds**

Payments under this grant contract will be made from federal funds obtained by the State through FEMA Cooperating Technical Partners Program, CFDA number 97.045. The Grantee is responsible for compliance with all federal requirements imposed on these funds and accepts full financial responsibility for any requirements imposed by the Grantee's failure to comply with federal requirements.

(c) **Unexpended Funds**

The Grantee must promptly return to the State any unexpended funds that have not been accounted for annually in a financial report to the State due at grant closeout.

#### 4.3 **Contracting and Bidding Requirements**

Grantees that are municipalities as defined in state statute must comply with the contracting provisions of [Minn. Stat. §471.345](#).

### 5 **Conditions of Payment**

All services provided by the Grantee under this grant contract must be performed to the State's satisfaction, as determined at the sole discretion of the State's Authorized Representative and in accordance with all applicable federal, state, and local laws, ordinances, rules, and regulations. The Grantee will not receive payment for work found by the State to be unsatisfactory or performed in violation of federal, state, or local law.

### 6 **Authorized Representative**

The State's Authorized Representative is Patrick Lynch, Floodplain Hydrologist, Department of Natural Resources, 500 Lafayette Road, St. Paul, Minnesota, 55155, 651-259-5691, [pat.lynch@state.mn.us](mailto:pat.lynch@state.mn.us), or his/her successor, and has the responsibility to monitor the Grantee's performance and the authority to accept or reject the services provided under this grant contract. If the services are satisfactory, the State's Authorized Representative will certify acceptance on each invoice submitted for payment.

The Grantee's Authorized Representative is Judie Anderson, Administrator, Elm Creek Watershed Management Commission, 3235 Fernbrook Lane North, Plymouth, Minnesota 55447, (763)553-1144, [judie@jass.biz](mailto:judie@jass.biz). If the Grantee's Authorized Representative changes at any time during this grant contract, the Grantee must immediately notify the State.

### 7 **Assignment, Amendments, Waiver, and Grant Contract Complete**

7.1 **Assignment.** The Grantee shall neither assign nor transfer any rights or obligations under this grant contract without the prior written consent of the State, approved by the same parties who executed and approved this grant contract, or their successors in office.

7.2 **Amendments.** Any amendments to this grant contract must be in writing and will not be effective until it has been executed and approved by the same parties who executed and approved the original grant contract, or their successors in office.

7.3 **Waiver.** If the State fails to enforce any provision of this grant contract, that failure does not waive the provision or the State's right to enforce it.

7.4 **Grant Contract Complete.** This grant contract contains all negotiations and agreements between the State and the Grantee. No other understanding regarding this grant contract, whether written or oral, may be used to bind either party.

### 8 **Liability**

The Grantee must indemnify, save, and hold the State, its agents, and employees harmless from any claims or causes of action, including attorney's fees incurred by the State, arising from the performance of this grant contract by the Grantee or the Grantee's agents or employees. This clause will not be construed to bar any legal remedies the Grantee may have for the State's failure to fulfill its obligations under this grant contract.

### 9 **State Audits**

Under Minn. Stat. §16B.98, Subd.8, the Grantee's books, records, documents, and accounting procedures and practices of the Grantee or other party relevant to this grant agreement or transaction are subject to examination by the State and/or the State Auditor or Legislative Auditor, as appropriate, for a minimum of six years from the end of this grant agreement, receipt and approval of all final reports, or

the required period of time to satisfy all state and program retention requirements, whichever is later.

## **10 Government Data Practices**

The Grantee and State must comply with the Minnesota Government Data Practices Act, Minn. Stat. Ch. 13, as it applies to all data provided by the State under this grant contract, and as it applies to all data created, collected, received, stored, used, maintained, or disseminated by the Grantee under this grant contract. The civil remedies of Minn. Stat. § 13.08 apply to the release of the data referred to in this clause by either the Grantee or the State.

If the Grantee receives a request to release the data referred to in this Clause, the Grantee must immediately notify the State. The State will give the Grantee instructions concerning the release of the data to the requesting party before the data is released. The Grantee's response to the request shall comply with applicable law.

## **11 Workers' Compensation**

The Grantee certifies that it is in compliance with Minn. Stat. § 176.181, subd. 2, pertaining to workers' compensation insurance coverage. The Grantee's employees and agents will not be considered State employees. Any claims that may arise under the Minnesota Workers' Compensation Act on behalf of these employees and any claims made by any third party as a consequence of any act or omission on the part of these employees are in no way the State's obligation or responsibility.

## **12 Prevailing Wages**

Grantee agrees to comply with all of the applicable provisions contained in Chapter 177 of the Minnesota Statutes, and specifically those provisions contained in Minn. Stat. §§ 177.41 through 177.435, as they may be amended, modified or replaced from time to time with respect to the Project.

## **13 Publicity and Endorsement**

### **12.1 Publicity**

Any publicity regarding the subject matter of this grant contract must identify the State as the sponsoring agency and must not be released without prior written approval from the State's Authorized Representative. For purposes of this provision, publicity includes notices, informational pamphlets, press releases, research, reports, signs, and similar public notices prepared by or for the Grantee individually or jointly with others, or any subcontractors, with respect to the program, publications, or services provided resulting from this grant contract. All projects primarily funded by state grant appropriation must publicly credit the State of Minnesota, including on the grantee's website when practicable.

### **12.2 Endorsement**

The Grantee must not claim that the State endorses its products or services.

## **14 Governing Law, Jurisdiction, and Venue**

Minnesota law, without regard to its choice-of-law provisions, governs this grant contract. Venue for all legal proceedings out of this grant contract, or its breach, must be in the appropriate state or federal court with competent jurisdiction in Ramsey County, Minnesota.

## **15 Termination**

**15.1 Termination by the State.** The State may immediately terminate this grant contract with or without

cause, upon 30 days' written notice to the Grantee. Upon termination, the Grantee will be entitled to payment, determined on a pro rata basis, for services satisfactorily performed.

**15.2 Termination for Cause.** The State may immediately terminate this grant contract if the State finds that there has been a failure to comply with the provisions of this grant contract, that reasonable progress has not been made or that the purposes for which the funds were granted have not been or will not be fulfilled. The State may take action to protect the interests of the State of Minnesota, including the refusal to disburse additional funds and requiring the return of all or part of the funds already disbursed.

## 16 Data Disclosure

Under Minn. Stat. § 270C.65, Subd. 3, and other applicable law, the Grantee consents to disclosure of its social security number, federal employer tax identification number, and/or Minnesota tax identification number, already provided to the State, to federal and state tax agencies and state personnel involved in the payment of state obligations. These identification numbers may be used in the enforcement of federal and state tax laws which could result in action requiring the Grantee to file state tax returns and pay delinquent state tax liabilities, if any.

### 1. STATE ENCUMBRANCE VERIFICATION

*Individual certifies that funds have been encumbered as required by Minn. Stat. §§16A.15 and 16C.05.*

Signed: Felicia Barnes  
(with delegated authority)

Date: 5/4/2018

SWIFT Contract/PO No(s). 141447/3000131351

### 3. STATE AGENCY

*Individual certifies the applicable provisions of Minn. Stat. §16C.08, subdivisions 2 and 3 are reaffirmed.*

By: \_\_\_\_\_

Title Director, Ecological & Water Resources

Date: \_\_\_\_\_

## 2. GRANTEE

The Grantee certifies that the appropriate person(s) have executed the grant contract on behalf of the Grantee as required by applicable articles, bylaws, resolutions, or ordinances.

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Distribution:

Agency

Grantee

State's Authorized Representative - Photo Copy

**ATTACHMENT A**  
**ELM CREEK WATERSHED MANAGEMENT COMMISSION**

## **Hennepin County Proposal to Provide FEMA Floodplain Modeling and Mapping**

**March 7, 2018**

### **Project Understanding and Approach**

The purpose of this project is to update the Special Flood Hazard Areas shown on the FEMA Floodplain maps that are located within the Elm Creek Watershed. In order to accomplish this, the existing Elm Creek Hydrologic and Hydraulic models will be created/updated in current modeling packages acceptable to the Minnesota DNR. The areas to be studied are those presented to us by the Minnesota DNR in their figure for the Elm Creek Watershed as attached. There are both detailed and non-detailed areas that require work under this scope to be included in this project.

In general, the scope of this proposal is to:

1. Update the Hydrology modeling for the watershed using either HEC-HMS or SWMM.
2. Update Creek Hydraulics using HEC-RAS
3. Create Floodway and Floodplain shapefiles using HEC-RAS mapper
4. Create Depth Grids using the RAS Mapper built into HEC-RAS
5. Create New Work Maps showing the new SFHA and other information required by the DNR
6. Other reports and documentation of the work

### **Task 1: Meetings**

Several Meetings will be required at various states between project partners. We assume the Minnesota DNR will provide meeting agendas and notes for each of these meetings. We anticipate the following meetings:

1. Kickoff Meeting: An overall meeting to introduce the project. Attendees would include representatives from Elm Creek, Hennepin County, the Minnesota DNR, and a representative of the cities. The purpose of the meeting will be to introduce the overall project tasks and schedule and get all expectations on the table.
2. Meeting with all cities in the watershed: The purpose of this meeting will be to review data needs to complete the studies as required. Specific topics will include availability of data and identification of any specific areas of concern from the cities representatives.
3. 90% Progress Meeting / Flood Risk Review Meeting (FRR): This meeting is to present near final work products, discuss any outstanding issues, and determine the final scheduling.

### **Task 2: Data Collection and Organization**

Hennepin County will provide each City a data request for all record plan information required for their particular city in addition to any information the Minnesota DNR may request. Hennepin County proposes to provide this list at the meeting under Task 1 where the project is introduced to the Cities.

Specifically, Hennepin County will request:

- Any drainage system maps showing all stormwater features such as ponds and pipes.
- Land use mapping showing existing and proposed land uses
- Any information including construction plans and as-built plans for any crossing locations of the special flood hazard areas identified on mapping.

In addition, Hennepin County will compile:

- USGS Gauging station data
- LIDAR Data from the MNDNR and prepare for use in modeling
- Previous TR-20 and HEC-2 Modeling for Elm Creek.

Hennepin County will review the compiled data and identify areas that require further investigation, whether that is digging deeper to find information or identifying areas where others may need to conduct a survey to obtain the information.

### **Task 3: Provide Required Survey Locations for others to complete survey**

Hennepin County will work with the Minnesota DNR to identify all locations where a detailed site survey is required to comply with the Minnesota DNR's required scope of work for crossings. The information will be provided to the Minnesota DNR or a contractor of the DNR's choosing to collect the survey data. Hennepin County will review all supplied survey data for errors and provide direction for additional survey as needed as a result of errors and or omissions.

Deliverables:

- Survey location figures

### **Task 4: Hydrology Update**

This task will result in an updated model of the Elm Creek Watershed, better reflecting current conditions as opposed to the present modeling dating back to the 1970's. This effort will build upon the existing modeling that currently exists for the watershed which includes the original TR-20 modeling from the 1970's and the HydroCAD model created from the TR-20 model as part of the Elm Creek Channel study conducted in the mid 2000's.

A new model, using either HEC-HMS or SWMM will be created. The previous watershed boundaries will be reviewed for consistency with the 2011 LIDAR data collected by the DNR, as well as information on storm drainage systems provided by each of the cities. Non-detailed areas will also be analyzed at a level to permit the non-detailed hydraulic analysis to occur.



Runoff will be determined using a method agreeable to the Minnesota DNR. While the current models use a curve number approach, other methods will be discussed and an agreement reached on one to use that meets the needs of this project as well as furthers the potential of future studies. Rainfall distributions will also be reviewed, including for snowmelt to ensure the proper method is selected.

Peak runoff rates for the 10%, 4%, 2%, 1% and 0.2% annual chance flood events will be determined for both detailed and non-detailed study areas. Peak flows will be calibrated with the flow data available from the USGS gauging station located on Elm Creek near Champlin.

Calibration to known flows at the USGS stream gauge on Elm Creek near Champlin will be provided as part of this task.

Internal QA/QC on the hydrology modeling will be done using internal Hennepin County staff to verify input data and output results.

**Deliverables:**

- An updated/new hydrologic model of the Elm Creek Watershed in HEC-HMS or SWMM
- A technical memorandum describing the assumptions and methods used to create the model and results
- Documentation of the QA/QC analysis from Hennepin County and the DNR.

**Task 5: Hydraulics Update (Detailed Study Areas)**

This task will create a revised hydraulic model of the Elm Creek Watershed in HEC-RAS. The proposed models will be a completely new model created from scratch instead of trying to replicate the previous HEC-2 models created in the 1970's. This will be done for all detailed areas shown in the DNR figure for the Elm Creek Watershed. The Hydraulic analysis will be done for the 10%, 4%, 2%, 1%, and 0.2% peak flood events. In order to create this model, the following tasks will be performed:

- Cut new cross sections at all old cross section locations (cross section locations already available in GIS) using the DNR's LIDAR data for overbank areas. Inchannel geometry will be created from the DNR requested survey bridge crossings, other channel survey locations, and as-built.
- Determine Manning's N values based on current conditions for overbank and channel areas,
- Run the models and review, revise, and troubleshoot.

Floodway analysis would be conducted on all detailed study areas as identified in the figure supplied by the DNR.

Similar to the Hydrology task, the initial QA/QC will be provided by internal Hennepin County staff who will review inputs and model outputs.

**Deliverables:**

- HEC-RAS models for each stage of the analysis and flood events.
- Documentation of responses to the QA/QC review process.



### **Task 6: Hydraulic Update (Non Detailed Study Areas)**

Non-detailed study areas will be analyzed in a different manner. Areas identified on the figure supplied by the DNR as non-detailed study areas will still be analyzed with HEC-RAS where appropriate, and for all storm events as done in the detailed study areas. However, cross sections will be based solely on cross sections cut using the DNR's LIDAR data. No channel data will be collected or determined for this modeling. In addition, only as-builts or construction plans will be used to determine information for all culverts or bridge crossings.

QA/QC will be provided by the Hennepin County internal staff.

Deliverables:

- HEC-RAS model(s)
- Cross Sections data and locations where not previously identified
- Documentation of QA/QC has been resolved

### **Task 7 – Mapping Products**

For detailed study areas, inundation maps for the 1%, 0.2% and floodway scenarios will be developed and produced using the RAS mapper functions of HEC-RAS and then edited in the Arc-GIS environment. For non-detailed study areas, only the 1% events will be mapped.

The maps produced by the RAS mapper package and then edited in Arc-GIS will be QA/QC'd for conformance with the model results. This step can be done internally by Hennepin County staff and documentation of all QA/QC processes and steps will be provided.

The information from these steps will then be imported into the required shapefile format provided by the DNR.

Depth Grids will also be generated in the same fashion and events as documented above. QA/QC and documentation will also be provided.

Deliverables:

- ~~Final Work Maps in digital format (PDF)~~
- Final Depth Grids for all return intervals as documented above.
- Final shapefiles for flood inundation areas, cross sections, and stream centerlines.
- Documentation of the QA/QC process

### **Task 8 – Narrative Products**

Elm Creek/Hennepin County will provide written narrative documentation at the 60, 90 and 100% levels. All steps will be distributed to the DNR and all cities in the watershed for comment and review. The 90% document will reflect the comments and changes from the 60% review, and the final document will address and additional comments from the 90% stage.

The summary report will document the process of creating the hydrology, hydraulics, and mapping products.

**Budget:**

The total budget proposed for this task is \$92,772.45. This is based on a rate of \$71.09 per hour from Hennepin County.

| Task | Task Description                  | Hours       | Cost                |
|------|-----------------------------------|-------------|---------------------|
| 1    | Meetings                          | 35          | \$2,488.15          |
| 2    | Data Collection and Organization  | 40          | \$2,843.60          |
| 3    | Survey Location Identification    | 30          | \$2,132.70          |
| 4    | Hydrologic Analysis               | 275         | \$19,549.75         |
| 5    | Hydraulic Analysis – Detailed     | 425         | \$30,213.25         |
| 6    | Hydraulic Analysis – Non-Detailed | 175         | \$12,440.75         |
| 7    | Mapping Products                  | 225         | \$15,995.25         |
| 8    | Narrative                         | 100         | \$7,109.00          |
|      | <b>Grand Total:</b>               | <b>1305</b> | <b>\$92, 772.45</b> |

**Schedule:**

Kickoff Meeting: March 2018

Hydrology to IAHC: June 2018

Hydraulic Model Submittal to DNR for Review: December 2018

Revised Model Submittal to DNR: May 2019

Draft Floodplain Shapefiles and Depth Grids to DNR: September 2019

60% Narrative to DNR for Review and Comment: October 2019

All Final Files to DNR: February 2020

Note that this schedule is shifted later than the suggested DNR schedule due to staffing constraints and timing of starting the project.

# Technical Memo



**To:** Elm Creek WMO Commissioners

**From:** Diane Spector, Wenck Associates, Inc.

**Date:** May 7, 2018

**Subject:** Rush Creek Headwaters SWA Status Report

This report details Rush Creek Headwaters Subwatershed Assessment project progress through April 2018.

**Budget status:**

|                  |             |
|------------------|-------------|
| Budget*          | \$56,700.00 |
| Through 3/31/18  | \$50,413.92 |
| 4/1/18 – 4/30/18 | \$4,917.40  |
| Balance          | \$1,368.68  |

\*For Wenck Associates services only, excluding JASS or Hennepin County services

**April 2018 Activities:**

- Completed draft report and circulated for comments

**Expected May-June 2018 Activities:**

- Receive comments on draft
- Meet with Core Team (late May) to review draft report and identified BMPs
- Meet with TAC (June) to review draft report and identified BMPs
- Meet with focus group to review draft report and identified BMPs
- Finalize report

# elm creek

## Watershed Management Commission

### ADMINISTRATIVE OFFICE

3235 Fernbrook Lane  
Plymouth, MN 55447  
PH: 763.553.1144  
FAX: 763.553.9326  
Email: judie@jass.biz

### TECHNICAL OFFICE

Hennepin County DES  
701 Fourth Street South, Suite 700  
Minneapolis, MN 55415-1600  
PH: 612.348-7338  
FAX: 612.348.8532  
Email: james.kujawa@co.hennepin.mn.us

## Hayden Hills Golf Course

*Dayton*

*Project #2018-008*

**Project Overview:** Landmark of Hayden Hills, LLC is working with Sathre-Bergquist, Inc. to design a residential development on approximately 86 acres within the Elm Creek Watershed south of South Diamond Lake Road and north of 129<sup>th</sup> Avenue North. The project will include construction of 238 new single family homes. Stormwater controls will be completed by the construction of 5 new wet detention ponds, the expansion of one existing wet detention pond, one new sediment basin, one new infiltration basin, and stormsewer connecting stormwater features and the new development. The project will add approximately 22.7 new acres of impervious area. The current land use is primarily golf course which consists of grass cover with Type A soils in fair conditions. The majority (54 acres) of the development area drains west towards a large wetland complex feeding the Maple Creek. The eastern portion of the site (31 acres) drains east and south away from the site toward 129<sup>th</sup> Avenue N.

**Applicant:** Lori Krueger-Kopischke, Landmark of Hayden Hills, LLC, 13432 Hanson Blvd NW, Andover, MN 55304

**Engineer/Agent:** Christian Froemke, Sathre-Bergquist, Inc., 150 South Broadway Ave. S, Wayzata, MN 55391

### **Exhibits:**

- 1) Storm Water Management Plan, prepared by Advanced Engineering and Environmental Services, Inc., dated February 2, 2018. The Plan was updated and resubmitted on May 3, 2018.
  - a. Project Background
  - b. Stormwater Requirements Summary
  - c. Drainage Summary and Stormwater Management Design
  - d. Soil Survey Report
  - e. InfoSWMM model and report for existing and proposed conditions
  - f. NURP Design computations using P8

- g. P8 model and results for existing and proposed conditions
  - h. Geotechnical Report, including soil borings
  - i. Pond #1 outlet structure detail
  - j. HydroCAD model and report for wet detention pond rating curve computations
- 2) Revised plan sheets from Hayden Hills Golf Course grading plan, signed and dated March 30, 2018.
  - 3) Responses to City of Dayton engineering comments dated May 3, 2018.

## **Findings:**

### **Stormwater Management**

- 1) The entire site is 85.7 acres. The impervious area will increase from approximately 2.7 acres (3.1%) to approximately 25.4 acres (29.5%).
- 2) The soils on the site are predominantly Hydrologic Soil Group Type A.
- 3) Stormwater will be managed on the site through seven wet detention ponds and an infiltration basin.
  - a. The site includes two existing stormwater ponds that will be modified.
  - a) Six new stormwater detention ponds will be constructed on the site. In addition, a stormwater pond treating runoff from a portion of Blesi Farms will be expanded to treat runoff from Hayden Hills under proposed conditions. The wet detention basins are designed to be permanent pool storage and infiltration features. However, District rules prohibit the use of permanent wet detention ponds from receiving infiltration credit to meet stormwater treatment and volume reduction requirements. Staff is working with the developer to work within site conditions and ECWMC rules to ensure the stormwater management plan is satisfactory.
- 4) Rate controls meet the Commission's standards as the peak runoff rates leaving the site via Pond #1 for the 2-, 10-, and 100-year events are all less than peak rates for existing conditions if the normal water level for the pond is approximately equal to the groundwater level of 855.0. While that may reflect average anticipated groundwater levels, some groundwater level fluctuation can be expected. If the groundwater level result is as high as 857 (which would be very conservative), then the standards for peak runoff rates are met for the 2- and 10-year events, but not met for the 100-year event. The results are summarized as follows:

|                           | 2-yr Peak<br>Flow (cfs) | 10-yr Peak<br>Flow (cfs) | 100-yr Peak<br>Flow (cfs) |
|---------------------------|-------------------------|--------------------------|---------------------------|
| Existing                  | 45.5                    | 46.8                     | 47.9                      |
| Proposed<br>(GWL = 855)   | 0.0                     | 0.0                      | <0.1                      |
| Proposed<br>(NWL = 857.0) | 6.6                     | 17.9                     | 50.7                      |

- 5) The City of Dayton has indicated they secure easements over the stormwater ponds and will be responsible for maintenance of the stormwater management system.

- 6) Water quality and volume loads are estimated as follows:

| Condition  | TP Load (lbs./yr)*  | TSS Load (lbs./yr)*    |
|--|---------------------|------------------------|
| Pre-development Load                               | 10.4                | 3,419                  |
| Post-development Load                              | 56.5                | 17,686                 |
| Post-development Discharge (with 100% abstraction) | 0.0                 | 0.0                    |
| Post-development Discharge (with 0% abstraction)   | 16.0                | 730                    |
| Net Change from Pre-development                    | <b>-10.4 / +5.6</b> | <b>-3,419 / -2,689</b> |

\*Value using p8 Model

- 7) The 1.1" abstraction requirement is achieved using an infiltration basin and regional ponds. With 25.5 acres of new impervious area the required abstraction volume is 101,662 cubic feet. With the known pervious soils in the vicinity and distance between the groundwater level and the pond outlets, significant infiltration can occur. The engineer estimated that up to 874,140 cubic feet of runoff can be abstracted from the site.
- 8) Typically, the Type A soils on site would provide an excellent opportunity for infiltration; however in this case, the groundwater levels are too high to achieve the proper separation from an infiltration basin and the groundwater level. The developer is providing pretreatment with sump manholes and baffles at manholes immediately upstream of discharge into the ponds to capture sediment and provide pre-treatment before discharging to the ponds.
- 9) The detention pond permanent pool volume meets NURP dead storage standards of at least the volume of runoff from an equivalent 2.5-inch precipitation event.
- 10) Regional ponds #1, #2, #3, #4, and #5 have a permeant pool depth greater than 10-foot maximum depth required to meet NURP permanent pool requirements. The excavation volume is needed for fill in other locations on the site. The developer is providing pretreatment with sump manholes and baffles at manholes immediately upstream of discharge into the ponds to capture sediment and provide pre-treatment before discharging to the ponds.
- 11) The basin infiltration rate was revised to 1.0 in/hr which would allow up to 4 feet of ponding depth. Onsite infiltration testing will be completed when suitable field conditions allows to verify the design infiltration rate is acceptable based on the testing results.

#### Erosion and Sediment Control

- 12) The erosion and sediment control plan is consistent with current best management practices.

#### Wetland Impacts

- 13) There are four small wet areas on the site; however, they were determined to be man-made incidental wetland made as part of the golf course. Mitigation is not required.

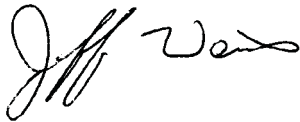
Floodplain Impacts

14) There is no construction within the 100-year floodplain.

**Recommendations:**

Staff recommends approval of the project with the following conditions:

- a) Developer provides additional information about the modeling, including:
  - i. Providing additional information about curve numbers used for the modeling.
  - ii. Provide additional explanation about the existing conditions modeling and how the 2-, 10-, and 100-year peak flows are essentially identical.
- b) Please indicate on Plans where pretreatment sump manhole and baffles are to be constructed. Provide typical detail for sump manholes.
- c) Resolution of potential wetland impacts within the project area and certification that proper mitigation will be required.

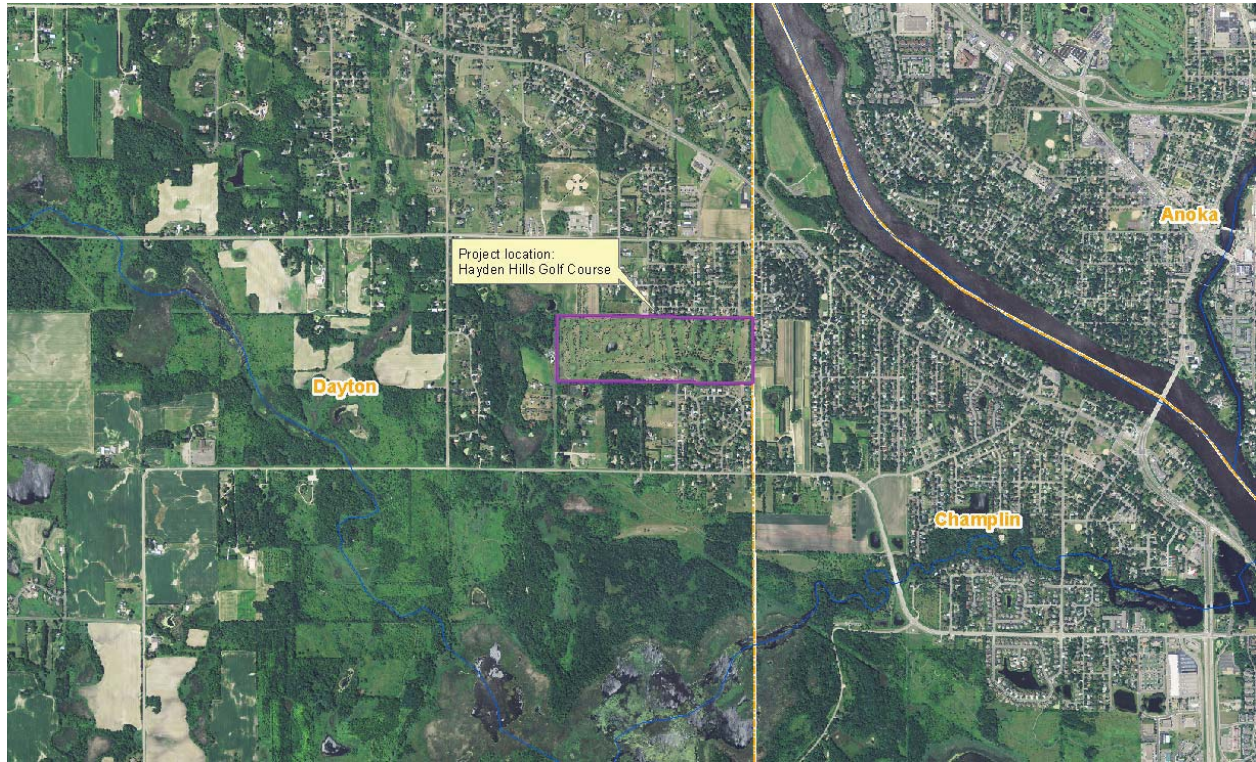


Jeff Weiss, P.E.  
Barr Engineering Company  
Advisor to the Commission

May 9, 2018  
Date



## Site Location Map







ELM CREEK WATERSHED MANAGEMENT COMMISSION  
STATE OF MINNESOTA

**RESOLUTION NO. 2018-02**  
**Authorizing Acceptance of a Grant**  
**from the Minnesota Department of Natural Resources**  
**for Improved Flood Risk Mapping.**

BE IT RESOLVED that the Elm Creek Watershed Management Commission, hereinafter referred to as the "Applicant" act as legal sponsor for entering in to an agreement with the Minnesota Department of Natural Resources for a collaborative effort to improve flood risk identification and mapping within its jurisdiction and that the Commission Chairman, Doug Baines, is hereby authorized to collaborate with the Minnesota Department of Natural Resources for securing funding of a project on behalf of the Applicant.

BE IT FURTHER RESOLVED that the Applicant has the legal authority to request financial assistance, and the institutional, administrative, technical and managerial capability to ensure satisfactory completion of the project described in State of Minnesota Grant Contract with the Elm Creek Watershed Management Commission for Improved Floodplain Modeling and Mapping, SWIFT Contract/PO No(s).141447/3000131351 dated May 4, 2018, attached herein.

BE IT FURTHER RESOLVED Applicant understands that funding provided through the Minnesota Department of Natural Resources requires no monetary match.

BE IT FURTHER RESOLVED that the Applicant hereby pledges to complete the project per the approved scope and budget if it exceeds the total funding provided by the Department of Natural Resources grant.

BE IT FURTHER RESOLVED that the Applicant has not incurred any reimbursable project expenses prior to the full execution of a grant agreement.

BE IT FURTHER RESOLVED that the Applicant has not violated any Federal, State, or local laws pertaining to fraud, bribery, graft, kickbacks, collusion, conflict of interest or other unlawful or corrupt practice.

BE IT FURTHER RESOLVED that upon approval of its request to the state, the Applicant may enter into an agreement with the State of Minnesota, and that the Applicant certifies that it will comply with all applicable laws and regulations as stated in the contract agreement.

NOW, THEREFORE BE IT RESOLVED that Commission Chairman, Doug Baines is hereby authorized to execute such agreements as are necessary to implement the project on behalf of the applicant.

I CERTIFY THAT the above resolution was adopted by the Board of the Elm Creek Watershed Management Commission on the ninth day of May, 2018.

**SIGNED:**

**WITNESSED:**

\_\_\_\_\_  
Doug Baines

\_\_\_\_\_  
Judie A. Anderson)

\_\_\_\_\_  
Chairman

\_\_\_\_\_  
Administrator)

\_\_\_\_\_  
May 9, 2018

\_\_\_\_\_  
May 9, 2018

**STATE OF MINNESOTA**  
**COUNTY OF HENNEPIN**

I, Judie A. Anderson, do hereby certify that I am the custodian of the minutes of all proceedings had and held by the Board of the Elm Creek Watershed Management Commission, that I have compared the above resolution with the original passed and adopted by the Board of said Commission at a regular meeting thereof held on the ninth day of May, 2018, at 11:30 a.m., that the above constitutes a true and correct copy thereof, that the same has not been amended or rescinded and is in full force and effect.

IN WITNESS WHEREOF, I have hereunto placed my hand and signature this ninth day of May, 2018.

\_\_\_\_\_  
Judie A. Anderson  
Recording Secretary

(NO SEAL)