

elm creek

Watershed Management Commission

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REVISED AGENDA May 8, 2019

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.*
 - 2) Exhibit A's.*
 - b. Commissioner Discussion.
 - c. Open Public Meeting.
 - 1) Receive written comments.
 - 2) Receive comments from public.
 - d. Close Public Meeting.
 - e. Commission Discussion.
 - f. Consider Resolution 2019-02.*
- Resume regular meeting.*
4. Open Forum.
 5. Action Items.
 - a. Project Reviews – see Status Report.*
 - 11.p. 2019-007 Westin Ridge, Plymouth.*
 - 11.r. 2019-009 Beacon ridge, Plymouth.*
 - 11.s. 2019-010 Hindu Temple Solar Array, Maple Grove.*
 - 11.t. 2019-011 Ravinia 11th Addition, Corcoran.*
 - b. 2020 Operating Budget.* **Revised budget.***
 - 1) Member Assessments.*
 - 2) Barr Letter of Interest.*
 - c. 2018 Financial Audit.*
 - d. 2019 CAMP Monitoring. *We have budgeted to monitor one lake this year.*
 6. Old Business.
 - a. Commission Procedures – Guenthner.
 7. New Business.
 - a. 2019-014 Bellwether 2nd Addition, Corcoran.
 8. Communications.
 - a. Corcoran 2018 Stormwater Annual Report.*

*in meeting packet
**available on website

- 9. Education.
 - a. WMWA Update.**
- 10. Grant Opportunities and Updates.

The meeting packet may be found on the Commission's website: <http://elmcreekwatershed.org/minutes--meeting-packets.html>

11. Project Reviews. (See Staff Report.*)

a.					2014-015	Rogers Drive Extension, Rogers.
b.					2015-004	Kinghorn Outlet A, Rogers.
c.					2016-040	Kinghorn 4 th Addition, Rogers.
d.					2016-047	Hy-Vee North, Maple Grove.
e.					2017-039	Rush Creek Apartments, Maple Grove.
f.					2017-050W	Ernie Mayer Wetland/floodplain violation, Corcoran.
g.					2018-005	Sundance Greens, Dayton.
h.					2018-014	Refuge at Rush Creek, Corcoran.
i.					2018-020	North 101 Storage, Rogers.
j.					2018-021	113th Lane Extension/Brockton/101, Rogers.
k.					2018-038	Vincent Woods of Roger.
l.					2018-046	Graco, Rogers
m.					2019-001	Fernbrook View Apartments, Maple Grove.
n.					2019-003	Rogers High School Tennis Court, Rogers.
o.					2019-005	UBOL I-94 MnDot project., Maple Grove, Rogers.
p.	A	E			2019-007	Westin Ridge, Plymouth.
q.					2019-008	Residences on Elm Creek, Medina.
r.	A	E			2019-009	Beacon Ridge, Plymouth.
s.	A	E			2019-010	Hindu Temple Solar Array, Maple Grove.
t.	A	E			2019-011	Ravinia 11 th Addition, Corcoran.
u.					2019-012	Brockton Lane Reconstruction Project, Plymouth.
v.					2019-013	Boston Scientific Parking Expansion, Maple Grove.
w.					2019-014	Bellwether 2 nd Addition, Corcoran.
x.						
y.						
z.						
ah.				AR	2013-046	Woods of Medina, Medina.
ai.				AR	2015-030	Kiddiegarten Child Care Center, Maple Grove.
aj.				AR	2016-002	The Markets at Rush Creek, Maple Grove.
ak.				AR	2016-005W	Ravinia Wetland Bank Plan, Corcoran.
al.				AR	2017-014	Laurel Creek, Rogers.
am.				AR	2017-017	Mary Queen of Peace Catholic Church, Rogers.
an.				AR	2017-029	Brayburn Trails, Dayton.
ao.				AR	2018-018	Summers Edge Phase II, Plymouth.
ap.				AR	2018-026	Windrose, Maple Grove.
aq.				AR	2018-028	Tricare Third Addition, Maple Grove.
ar.				AR	2018-044	OSI Phase II, Medina.
as.				AR	2018-048	Faithbrook Church Phase 2, Dayton.
at.				AR	2019-002	Parkside Villas, Champlin.

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

12. Other Business.

Z:\Elm Creek\Meetings\Meetings 2019\05 Regular and Public meeting agenda.docx

*in meeting packet
 **available on website

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Ravinia 11th Addition Corcoran, Project #2019-011

Project Overview: This project is a 5.6-acre, rural residential lot located on CR 101, approximately ¼ north of the four-corner intersection Maple Grove, Plymouth, Medina and Corcoran. Lennar Homes is proposing to subdivide the property into 14 single-family residential lots. This project triggers the Commission's review for Stormwater Management (Rule D), Erosion and Sediment Controls (Rule E), Wetland Alteration (Rule G), and Buffer Strips (Rule I) to their 3rd Generation STWMP Rules and Standards.

Applicant/Agent: US Home Corporation, Attention Paul Tabone. 16306 36th Ave. N Suite 600, Plymouth MN 55446. Phone: 952-247-3086. Email: Paultabone@lennar.com

Engineer: Sathre-Bergquist Inc., Attention Charles Wiemerslage, 150 South Broadway, Wayzata, MN 55391. Phone; 952-476-6000. Email; cwiemerslage@sathre.com

Exhibits:

- 1) ECWMC Request for Plan Review and Approval with fee, received April 10, 2019
- 2) Ravinia 11th Addition Preliminary Site Plans by Sathre-Bergquist Inc. dated December 18, 2018 with last revision date of March 19, 2019.
 - a. Sheet 1 of 16, Title Sheet
 - b. Sheet 2-3 of 16, Final Street Plan
 - c. Sheets 4-5 of 16, Final Sanitary Sewer & Watermain Plan
 - d. Sheets 6-7 of 16, Final Storm Sewer Plan
 - e. Sheet 8 of 16, Final Grading Plan
 - f. Sheet 9 of 16, Final Erosion Control Plan
 - g. Sheets 10-16 of 16 Details
 - h. Sheet TS, Tree Survey
 - i. Sheet 1 of 1, Alta/NSPS Land Title Survey dated December 4, 2018.
 - j. Sheets 1-2 of 2, Ravinia 11th Addition Plat
 - k. Sheet 1 of 1, Ravinia 11th Addition, Preliminary Plan with last revision date of March 19, 2019.
 - l. Ravinia 11th Addition lot tabulation
- 3) Wenck (city consultant) Ravinia 11th Addition review dated January 28, 2019 with redline response
- 4) Geotechnical Evaluation Report for Nichols Property dated January 7, 2019.

- 5) Nichols Stormwater Management Plan, by Advanced Engineering and Environmental Services dated March 15, 2019.
- 6) Ravinia overall density and phasing plan.

Findings:

- 1) A complete application was received on April 10, 2019. The initial decision period, per MN Statute 15.99 expires on June 9, 2019.
- 2) This site is in the Elm Creek watershed basin. It drains south and east under CR 47 and through a series of wetlands and floodplains before reaching Elm Creek in Plymouth, just east of Peony Lane.
- 3) The existing land use is a rural, single family residential lot. It has 0.53 acres of impervious surfaces and 5.06 acres of grass/woods/wetland/ponding areas.
- 4) The proposed land use will have 1.65 acres on new impervious surfaces (note, this includes 0.31 acres from future development to the south that will be treated in filter basin 21) and 4.06 acres of lawns/grass/woods/wetlands/ponding area.

Stormwater Management

- 5) One onsite filter basin is proposed in this addition.
- 6) There are three existing wetlands on this site that will not be impacted by this development.
 - a. Wetland 16 is along the west side of the development. A 21" pipe will route water from wetland 16 east into wetland 17.
 - b. Wetland 17 is on the south side of this development and drains to the south off site.
 - c. Wetland 15 is on the east side of the site and drains into an existing ditch/culvert on CR 110 that runs east into the Fieldstone development in Maple Grove.
 - i. The filter basin will drain into Wetland 15.
- 7) There are two discharge points from this development.
 - a. Water flowing into wetland #17 then south off site
 - b. Water flowing into Wetland #15 then into the CR 101 ditch culvert system.
- 8) Wetlands and filter basins will have drainage and utility easements placed over them as part of the platting process
- 9) The City of Corcoran requires landowners maintain stormwater basins. Lennar will be forming a Homeowners Association to operate and maintain this onsite filter basin.
 - a. An operation and maintenance agreement between the city and HOA must be approved and recorded on the land title.
- 10) When the area south of this development is platted, it is presumed that Road 2 in the 11th addition will terminate into a cul-de-sac with five additional lots on that property. The stormwater filter basin on the 11th addition is proposed to treat this future development for rate, quantity and quality controls.

- 11) Rate controls will meet the Commission standards for 2, 10- and 100-year discharges. Based on the 2 main discharge points on this site, the rates will be as follows;

	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rates South (into Wetland 17)	6.3	13.1	22.5
Post-Development Rates South (into Wetland 17)	5.4	11.0	19.3
Pre-Development Rates East (into CR 101 ditch)	10.1	20.0	29.6
Post-Development Rates East (into CR 101 ditch)	7.6	19.6	28.3

- 12) Abstraction requirements will be for 1.65 acres new impervious areas on site and 0.31 acres of proposed new impervious areas for the future development to the south that will drain into the new filter basin in Ravinia 11th Addition. Total filtered abstraction required in this basin will be 1.96 new impervious areas, or 7,826 cubic feet. Actual filtration volume proposed will be 9,675 cubic feet, which will meet our abstraction requirements.
- Drawdown on the filter basin will be 23.7 hours.
 - A forebay will be constructed as part of this basin. Its size was based on 10% of the filtration volume, or 976 cubic feet.
- 13) Phosphorus and Total Suspended solids were analyzed using P8 for pre and post development. Both loads will be reduced after development vs pre-development. This will meet the Commission standard. Water quality and abstraction will be as follows;

Condition (based on 5.67 acres)	TP Load (lbs/yr)	TSS Load (lbs/yr)	Abstraction (cu. ft.)	Filtration (cu. ft.)	Annual Volume* (ac. ft.)
Pre-development (baseline)	2.3	733	N/A	N/A	4.04
Post-development without BMPs	5.0	1547		7826	
Post-development with BMPs	1.9	151		9675	4.65
Net Change	-0.4	-582	N/A	-1797	N/A

- 14) Buffer widths on the wetlands do not appear to meet the Commission standard of 10' minimum, 25' average.
- 15) The City of Corcoran is the LGU in charge of administering the MN WCA. There does not appear to be any impacts to the wetlands in this parcel.
- 16) Grading and erosion control plans meet the Commission's requirements.

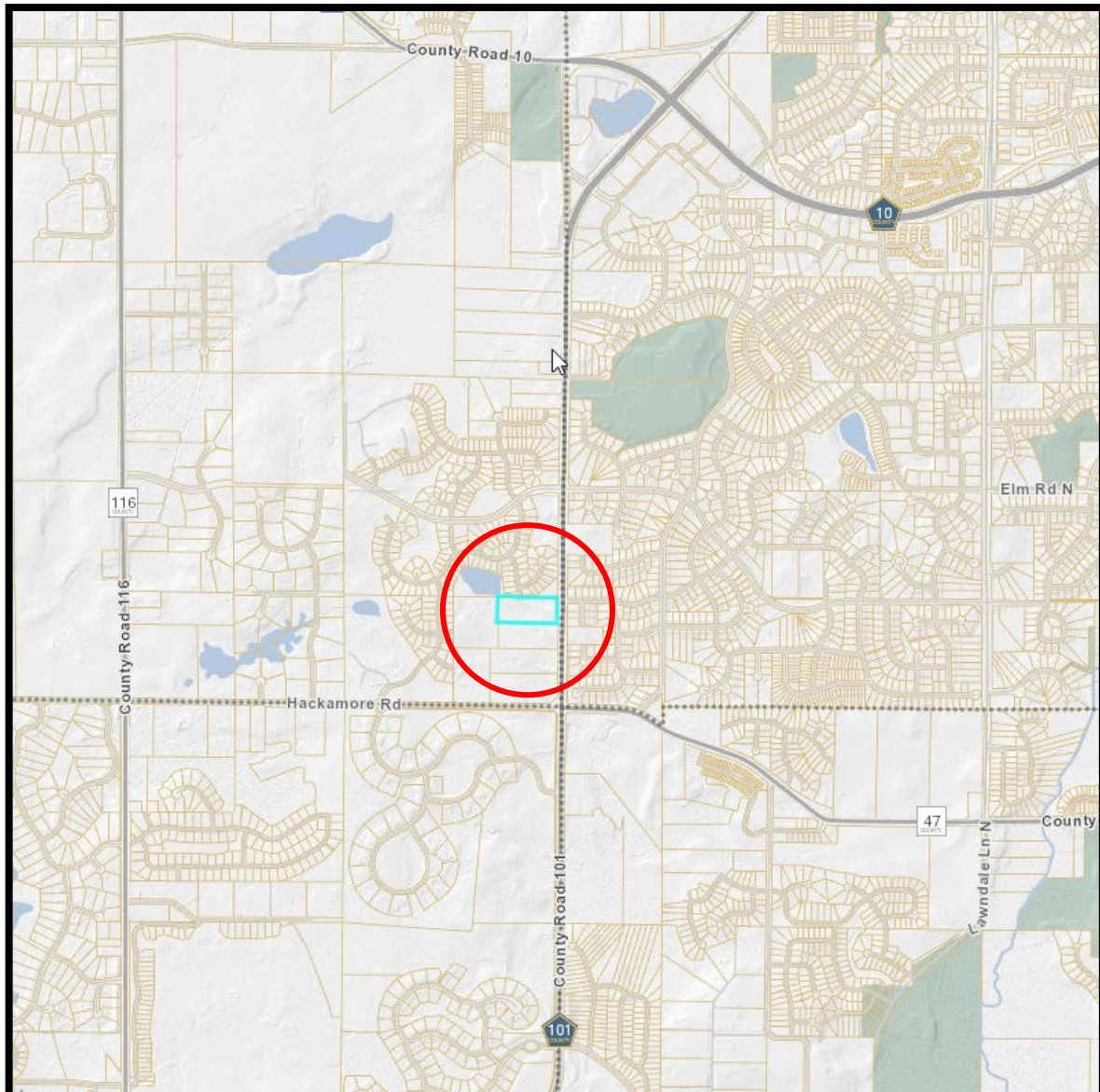
Recommendation: Approval contingent upon;

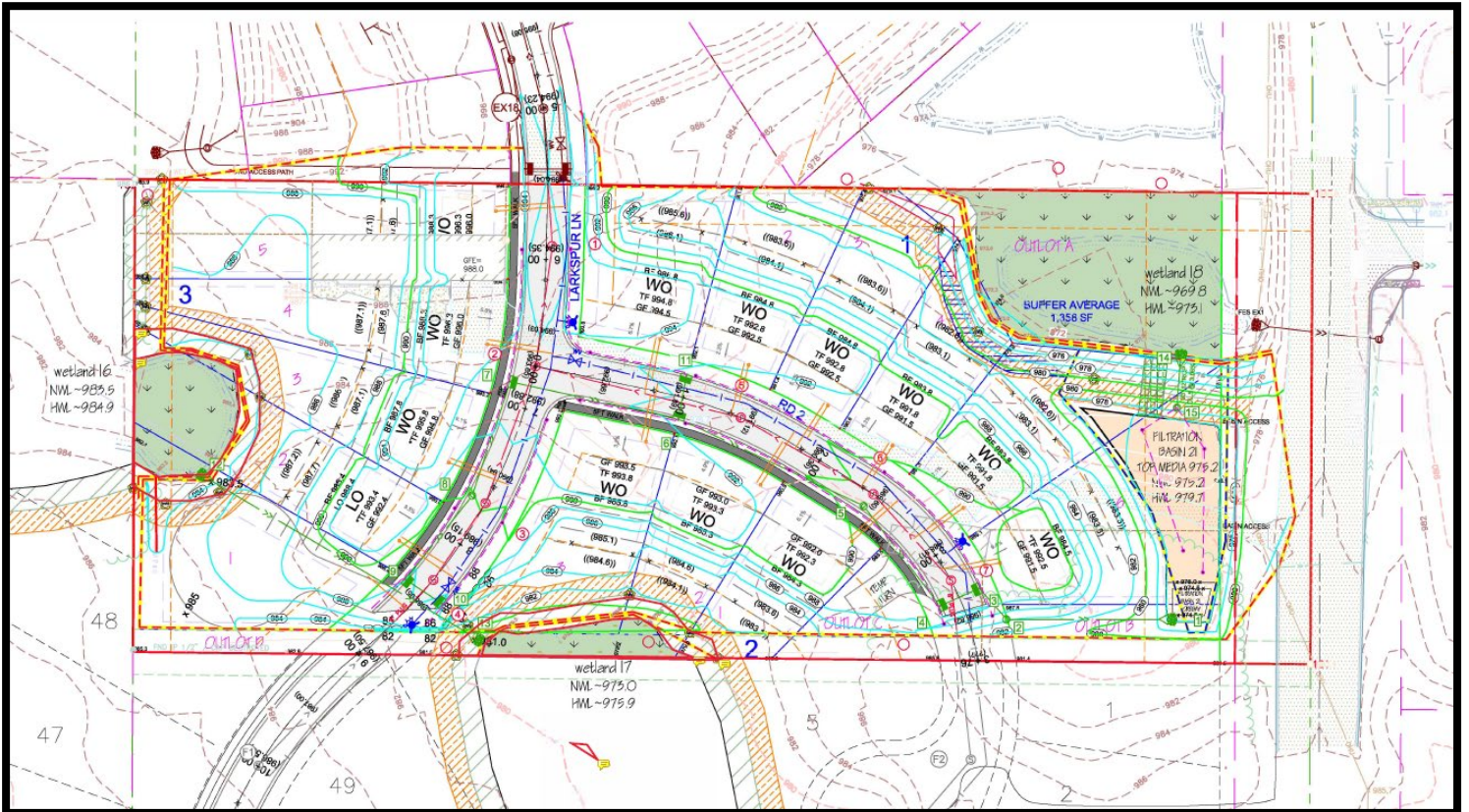
- Wetland Buffers must meet the ECWMC requirements.
- An operation and maintenance agreement between the city and HOA must be approved and recorded on the land title on this property.

Hennepin County
Department of Environment and Energy
Advisor to the Commission



May 7, 2019





Elm Creek Watershed Management Commission - Proposed 2020 Operating Budget

	A	B	C	D	AR	AS	AT	AU	AV	AW	AX	AY	AZ
3					2017 Budget	2017 Final	2018 Budget		Final per Prelim 2018 Audit	2019 Budget		2020 Budget	
4	GENERAL OPERATING BUDGET												
5	Operating Expenses												
6		Administrative			90,000	86,212	90,000		84,728	90,000		90,000	
7		Watershed-wide TMDL Admin					2,500	implementation		1,500		300	
8		Grant Writing			5,000	0	4,000			4,000		1,000	
9		Website			6,000	1,807	6,000	add Facebook	1,973	5,000		3,000	
10		Legal Services			2,000	0	2,000		271	2,000		2,000	
11		Audit			5,000	4,500	5,000		4,500	5,000		5,000	
12		Insurance (dividend 2017 = \$487)			3,800	2,355	3,900		2,993	3,900		3,900	
13		Technical support - HCEE										15,000	
14		Contingency			2,000	983	1,000			1,000		1,000	
15				Subtotal	113,800	95,857	114,400		94,465	112,400		121,200	
16		Project Reviews											
17		Technical - HCEE			98,000	90,970	95,000		92,477	97,400		0	
18		Technical - HCEE - Floodplain modeling					46,386	rev to 2018 Budget	7,027	46,386		39,360	
19		Technical Support - Consultant			15,000	8,424	12,000		37,553	15,000		185,000	
20		Admin Support			11,000	13,425	14,000		13,543	15,000		15,000	
21				Subtotal	124,000	112,819	167,386		150,600	173,786		239,360	
22		Wetland Conservation Act											
23		WCA Expense - HCEE			12,000	12,178	17,750		15,886	18,200		3,000	
24		WCA Expense - Legal			500	512	500		683	500		500	
25		WCA Expense - Admin			2,000	1,680	1,500		3,388	2,000		1,000	
26				Subtotal	14,500	14,370	19,750		19,957	20,700		4,500	
27		Water Monitoring											
28		Stream Monitoring											
29		Stream Monitoring - USGS			24,177	24,177	24,900		21,660	41,000	biennial contract	24,000	
30		Stream Monitoring - TRPD								6,225			
31		Extensive Stream Monitoring			7,000	7,120	7,600		7,600	650		7,200	
32		DO Longitudinal Survey			500	500	1,000		1,000			1,000	
33		Gauging Station - Elec Bill			220	206	250		208	250		250	
34		Rain Gauge Network			100		100			100		100	

Elm Creek Watershed Management Commission - Proposed 2020 Operating Budget

	A	B	C	D	AR	AS	AT	AU	AV	AW	AX	AY	AZ
35				Lake Monitoring									
36				Lake Monitoring - CAMP	1,200	200	720		550	760		760	
37				Lake Monitoring - TRPD									
38				Sentinel Lakes	2,470	2,325	3,300		3,300	8,100		8,100	
39				Additional lake	618	775	825			1,500		2,500	
40				Aquatic Vegetation Surveys	1,029		1,100		1,100	325		1,100	
41	v			Source Assessment	2,000		0						
42	v			Watershed-wide TMDL - Followup - TRPD	10,000	668	5,000			2,500		1,000	
43				Wetland Monitoring - WHEP	4,000	4,000	4,000		4,000	4,000		4,000	
45				Subtotal	53,314	39,971	48,795		39,418	65,410		50,010	
46				Education									
47				Education - City/Citizen Programs	4,000	4,066	4,000		2,269	4,000		3,000	
49				WMWA General Admin	4,000	3,750	4,000		2,000	5,000		5,000	
50				WMWA Implementa Activities incl Watershed	6,000	6,000	6,500		3,250	6,500		6,500	
52				R Garden Workshop/Intensive BMPs	2,000	2,294	2,000		2,924	2,000		3,000	
53				Education Grants	2,000	225	2,000			1,000		1,000	
54				Macroinvertebrate Monitoring-River Watch	6,000	5,000	3,000		3,000	3,000		3,000	
55				Ag Specialist									
56				Subtotal	24,000	21,335	21,500		13,443	21,500		21,500	
61				Management Plan									
62				Plan Amendments	5,000	1,370	2,000		1,388	2,000		2,000	
63				Local Plan Review	2,000		8,000	incl. in line 16					
64				Contribution to 4th Generation Plan				Consider \$10,000/set-aside beginning 2021					
65				Subtotal	7,000	1,370	10,000		1,388	2,000		2,000	

Elm Creek Watershed Management Commission - Proposed 2020 Operating Budget

	A	B	C	D	AR	AS	AT	AU	AV	AW	AX	AY	AZ
66		CIPs, Grants, Special Projects, Studies											
67		Capital Outlay - CIPs - Ad Valorem			249,000	2,244	490,000		323,545	462,500		423,323	
68		Grants				212,076			27,631			125,000	
69		Projects ineligible for ad valorem			50,000		50,000		0			0	
73		Studies, Subwatershed Assessments			35,000	4,000	35,000		3,534	35,000		0	
74		Cash Sureties							165,571				
76				Subtotal	334,000	218,320	575,000		520,281	497,500		548,323	
79		Contingency			0		0		0	0		0	
80				Subtotal	0	0	0		0	0		0	
81		Total Op Exp (lines 15,21,26,45,56,65,76,80)			670,614	504,042	956,831	0	839,552	893,296	0	986,893	
82													
83		Revenue											
84		CIPs - Ad Valorem			249,000	494,330	490,000		436,393	462,500		423,323	
85		Grant Revenue				125,140			167,855			100,000	
86		Floodplain Modeling					46,386			46,386		39,360	
87		Project Review Fees			100,000	78,125	80,000		73,305	80,000		80,000	
88		Water Monitoring - TRPD Co-op Agmt			6,500	5,036	6,500		5,000	5,000		5,500	
89		BMP Implementation											
90		WCA Fees			8,000	4,700	10,000		3,450	5,000		0	
91		Forfeited/Reimbursed Sureties, Reimbursement from LGUs			0	2,289	0		2,733	4,000			
92		Membership Dues			219,700	219,700	225,000	2.415% increase	225,000	230,400	3.00%	237,300	
93		Watershed-wide TMDL											
94		Interest Income			100	5,921	250		18,382	2,500		8,000	
95		Dividend Income					750		223	500		250	
96		Miscellaneous Income											
97													
98				Total Operating Revenue (lines 84-97)	583,300	935,241	858,886	0	932,341	836,286	0	893,733	
99		Surplus (Deficit) (lines 81, 98)			87,314	431,199	97,945	0	92,789	57,010	0	93,160	

Elm Creek Watershed Management Commission - Proposed 2020 Operating Budget

	A	B	C	D	AR	AS	AT	AU	AV	AW	AX	AY	AZ
100													
101	Assets												
102	Cash and investments					959,050			1,204,595	Cash on hand			
103	Restricted cash					150,571			98,444	Lines 109 and 110 below			
104	Accounts Receivable					10,262			15,167	includes Commission invoices outstanding plus Flood Mapping expenses unpaid			
105	Total Assets					1,119,883			1,318,206	A			
106													
107	Liabilities and Fund Balances												
108	Accounts payable					54,320			107,830	includes Commission expenses paid and WCA escrow returned in Jan 2019			
109	WCA Escrows					150,571			30,000				
110	Unearned Revenue								68,444	includes unearned revenue from Fish Lake and Watershed Based grants			
111	Total Liabilities					204,891			206,274	B			
112													
113	Fund Balances												
114	Restricted for CIPs					621,135			732,761				
115	Closed Project Account								1,222	funds remaining after project closed, to be designated for future CIPs only			
116						621,135			733,983				
117													
118	Assigned for projects, studies					143,832			225,297				
119	Assigned for other					0			0				
120	Total Assigned Funds					143,832			225,297	D			
121													
122	Unrestricted/unassigned fund balances					150,025			152,651	Funds not designated for any purpose		2,481	
123						150,025		A-B-C-D	152,651	E		AV122 minus AW99 minus AY99 (this is a plus number)	
124													
125	Total Fund Balance/Net position					914,992		C+D+E	1,111,931	F			
126													
127	Total Liabilities and fund balances					1,119,883		B+F	1,318,205	G			
128													
129													
130										2019 Restricted			
131										Fish Lake alum 2		18,868	
132										Diamond Lake SWA		7,500	
133										Corcoran SWA		8,820	
134										Rice Lake Treatment			
135												35,188	