



**AGENDA
CITY OF HARRISONVILLE
BOARD OF ALDERMEN
WORK SESSION
CITY HALL
JUNE 4, 2015
6:00 PM**

- I. Open Meeting**
 - A. Present**
- II. Agenda Items**
 - A. Walmart DC Sewer**
 - B. Commercial Street Overlay/Asphalt Overlay Program**
 - C. 2015 Curb and Sidewalk Program**
 - D. BOATING RULES LAKE HARRISONVILLE**
- III. Stormwater Issues**
- IV. Public Works Project Updates**
 - A. PUBLIC WORKS UPDATE JUNE 2015**
- V. Airport Reports**
 - A. AIRPORT REPORT**
- VI. General Discussion**
- VII. Adjourn**

Posted on City Hall Bulletin Board this 2nd day of June

Kim Hubbard, City Clerk



TO: Board of Aldermen
FROM: Eric Patterson, Asst. Director
DATE: May 28, 2015
SUBJECT: Walmart DC Sewer

Type of Item: *Report*

Attached is the Engineer's estimate of probable costs for both SAPP BROS and Walmart D.C. if done in 2015. The cost to do this 5 years from now would be approximately 25%/± more. This does not include any contingency. Contingencies are generally 10%/±. When we attach we would then reimburse Sapp \$107,000 for our portion of the force main between Sapp and our gravity system. Sapp Brothers has not responded to our inquiry concerning this alternative.

Moving to this system for sanitary sewer treatment will result in decreased time for maintenance and DNR reporting. This would be approximately 15-20 hours less time spent per week (\$25.00/hour ± plus benefits or \$19,500 - \$26,000/year plus benefits). If Sapp Bros. do not proceed, our portion would go up by approximately \$200,000. See the attached spread sheet from Bartlett & West, highlighted items are things we would still have to do for Walmart D.C.

A. Discussion Item (ID # 1889)

Walmart DC Sewer

Attachments:

Pressure System and Force Main 2015 (PDF)

City of Harrisonville, MO

Opinion of Probable Costs, Southwest Sewer Extension

Option #1, Service by Pressured System and Force Main

Item No.	Description	Units	Estimated Quantity	Unit Price	Total Estimated Cost
	Sapp Brothers Site to Existing Manhole				
1	Mobilization	LS	1	\$ 7,500	\$ 7,500
2	4" HDPE DR 17 Sewer Force Main	LF	11000	\$ 16.00	\$ 176,000
3	Grinder Pump Station Complete, Duplex Pump	EA	1	\$ 55,000	\$ 55,000
4	4" Gate Valve and Valve Box	EA	4	\$ 850	\$ 3,400
5	4" Cleanout Assembly, Complete	EA	4	\$ 750	\$ 3,000
6	4" Type 1 Road Crossing	EA	2	\$ 5,000	\$ 10,000
7	EQ Manhole and lid, 5' Diameter 10' Depth	EA	1	\$ 15,000	\$ 15,000
8	Connecting to Existing Manhole	EA	1	\$ 1,500	\$ 1,500
9	Clearing and Grubbing, Landscape Restoration	LS	1	\$ 2,500	\$ 2,500
10	Seeding and Fertilizer	LS	1	\$ 5,000	\$ 5,000
11	Temporary Traffic Control	LS	1	\$ 1,500	\$ 1,500
12	Erosion Control	LS	1	\$ 2,500	\$ 2,500
13	Electrical and Backup Power	EA	1	\$ 25,000	\$ 25,000
14	SCADA Radio and RTU Units	EA	1	\$ 5,000	\$ 5,000
	Subtotal, Construction Costs				\$ 313,000
	Other Cost, Engineering, and Legal		25%		\$ 78,000
	Construction Contingencies		0%		\$ -
	Total Opinion of Probable Cost				\$ 391,000

Option #2, Extend Service to WalMart Distr. Center

Item No.	Description	Units	Estimated Quantity	Unit Price	Total Estimated Cost
	Wal Mart to Sapp Brothers Site				
1	Mobilization	LS	1	\$ 7,500	\$ 7,500
2	4" HDPE DR 17 Sewer Force Main	LF	4000	\$ 16.00	\$ 64,000
3	Grinder Pump Station Complete, Duplex Pump	EA	1	\$ 55,000	\$ 55,000
4	4" Gate Valve and Valve Box	EA	4	\$ 850	\$ 3,400
5	4" Cleanout Assembly, Complete	EA	4	\$ 750	\$ 3,000
6	4" Type 1 Road Crossing	EA	2	\$ 5,000	\$ 10,000
7	EQ Manhole and lid, 5' Diameter 10' Depth	EA	1	\$ 15,000	\$ 15,000
8	Connecting to Existing Forcemain	EA	1	\$ 1,500	\$ 1,500
9	Clearing and Grubbing, Landscape Restoration	LS	1	\$ 1,500	\$ 1,500
10	Seeding and Fertilizer	LS	1	\$ 1,500	\$ 1,500
11	Temporary Traffic Control	LS	1	\$ 1,000	\$ 1,000
12	Erosion Control	LS	1	\$ 1,000	\$ 1,000
13	Piping Modifications--Walmart EQ Basin	LS	1	\$ 25,000	\$ 25,000
14	Electrical and Backup Power	EA	1	\$ 25,000	\$ 25,000
15	SCADA Integration & Controls at Main WWTP	LS	1	\$ 25,000	\$ 25,000
16	SCADA Radio and RTU Units	EA	1	\$ 7,500	\$ 7,500
	Subtotal, Construction Costs				\$ 247,000
	Other Cost, Engineering, and Legal		25%		\$ 62,000
	Construction Contingencies		0%		\$ -
	Total Opinion of Probable Cost				\$ 309,000

Draft for discussion- 5-21-15

Attachment: Pressure System and Force Main 2015 (1889 : Walmart DC Sewer)



STAFF REPORT

TO: Board of Aldermen
FROM: Eric Patterson, Asst. Director
DATE: May 28, 2015
SUBJECT: Commercial Street Overlay/Asphalt Overlay Program

Type of Item: Report**Issue:**

2015 Capital Improvement Asphalt Program: Street Department Recommendation for Asphalt Overlay on Commercial Street starting at Butler Drive proceeding north as funding allows.

Summary Recommendation:

In evaluating the city streets for 2015 Asphalt Program with a budget of \$150,000, and the funds not being sufficient enough to complete the project from Butler Drive to Plaza Drive. It is recommend that the 2015 Asphalt Program funding and any additional funds available be used for a 2 inch asphalt overlay on Commercial Street starting at Butler Drive, proceeding north. It is staff's recommendation to complete any part of Commercial Street not resurfaced in 2015 be funded for completion to Plaza Drive in 2016.

Background:

Public Works Committee directed staff to study and make recommendations for asphalt overlay with available funds instead of micro surfacing on Commercial Street beginning at Butler Drive going north. In evaluating Commercial Street asphalt replacement using the 2015 Asphalt Program with a budget of \$150,000 the project would extend from Butler Drive to Washington Street.

Commercial Street will need to be budgeted and completed at a later time when the cost for asphalt and paint stripping will be at a premium due to small quantities.

Options:

The best options on asphalt overlaying Commercial Street are:

- To mill and overlay Commercial Street from Butler Drive to Plaza Drive, estimated to cost \$430,000. entire length 9386' X width curb face to curb face 37'
- The estimated cost to mill and overlay Commercial Street from Butler Drive to Locust Street, estimated to cost \$330,000. Length 7,138' X width curb face to curb face 37' (measurements from Tran-Systems Transportation Plan)

- An appropriate stopping point to end asphalt on Commercial Street with limited funds would be at Mechanic Street. The section from Butler Drive to Mechanic Street is estimated cost \$190,000. Commercial Street overlay from curb face to curb face measures 37 feet wide and Butler Drive to Mechanic Street is 4000 feet in length or 148,000 square feet.
- Asphalt overlay over a multi-year time period starting with Butler Drive to Washington Street with 2015 Asphalt Program as budgeted, \$150,000.
- Traffic loops (approximately \$7,500)

Recommendation:

Staff recommends resurfacing Commercial Street from Butler Drive to Plaza Dr. using any available funding to gain the lowest price on unit asphalt and restriping cost. Any portion of Commercial Street not completed in 2015 should be a priority in the 2016 Asphalt overlay budget. It is requested that new stripping needed on Commercial Street be funded by the reallocation of the Street Stripping Program. Estimated cost of a 2 inch mill and overlay and painting of Commercial Street from Butler Drive to Plaza Drive is **\$430,000**

B. Discussion Item (ID # 1890)

Commercial Street Overlay/Asphalt Overlay Program



TO: Board of Aldermen
FROM: Eric Patterson, Asst. Director
DATE: May 28, 2015
SUBJECT: 2015 Curb and Sidewalk Program

Type of Item: *Approval*

Staff is requesting approval to extend Young's Waterproofing and Construction to include the 2015 program. Young's has agreed to hold the same prices on everything except Type 1 Straight back (commercial style curb) and we would see a slight increase in that line item, there is only 200 feet of this style planned. Young's Waterproofing and Construction has done our Sidewalk & Curb program since 2012 and have been great to work with if we have a change in priority or if we need them to hold off on an area while something else is going on.

C. Action Item (ID # 1891)

2015 Curb and Sidewalk Program



STAFF REPORT

TO: Board of Aldermen
FROM: Jerry Gibbs, Director
DATE: May 22, 2015
SUBJECT: BOATING RULES LAKE HARRISONVILLE

Type of Item: Report

BACKGROUND

Lake Harrisonville was constructed in the early 70's. Rules and regulations were developed and implemented in the mid 70's and modified in the mid 80's. A lake caretaker was employed full-time to oversee the lake's passive recreational operations and enforce the rules. In late 2010 it was determined a part-time caretaker position occupied by a city staff person would be adequate to maintain the property, watch lake use in the evenings and weekends and reduce the operations budget. Recent changes implemented in 2013 allowed canoes and kayaks to access the lake.

On April 9th the Committee asked staff to review Lake Jacomo's boating regulations. Staff also received an unsolicited comment from Chris Burt of Raymore concerning the current hp boating regulation and removing the propeller off on any motor greater than 10 hp. Staff requested Mr. Burt submit his concern by email.

ISSUE

Lake Jacomo limits the horse power of an outboard motor to 20 hp or less. A boat must be at least 8 ft in length (allows the small plastic boat). The other lakes Mr. Burt refers to follow the State Conservation Code (see attached) restricting the wake on any motor greater than 10 hp. This is the same regulation staff was proposing to change in *Section 225.530 E. Boats, Permits and Regulations - Motors will be restricted to a maximum of ten (10) horsepower. All motors over ten (10) horsepower will have the props removed. Any boat not in compliance will be subject to a one hundred dollar (\$100) fine.*

Staff would recommend changing the Lake Harrisonville Rules and Regulation 225.530 E to be consistent with Department of Conservation Code Section 10-12.110(6) stating **"Outboard motors in excess of ten (10) horsepower may be used but must be operated at slow, no-wake speed"**. The fine portion would remain the same. Staff would also recommend adding a minimum boat length of 8 feet.

D. Discussion Item (ID # 1875)

BOATING RULES LAKE HARRISONVILLE

Attachments:

Chris Burt - 5-15 (PDF)

State Code 3c10-12 (PDF)

Lake Jacomo Boat Rules (PDF)

Hazel Hill Lake Boating Reg (PDF)

Sheryl Stanley

From: Chris Burt <c_burt@att.net>
Sent: Thursday, May 14, 2015 3:49 PM
To: Jerry Gibbs
Subject: RE:Needed lake rules and regulations changes

Thanks for talking with me earlier today Jerry. I appreciated the candid conversation about existing rules and regulations.

Here are some of my thoughts on the boat rules that are now in effect and why they should be revised.

The first issue I have is removing propeller on motors over 10 hp and why its dangerous. First I have a 17' bass boat with a 75 hp engine and trolling motor.

If a storm comes up, I can't return to ramp without going thru the long and dangerous process of reinstalling the prop while on the water. Its just hard to reach over the back while the motor is tilted up and get it back on.

Propeller is heavy (stainless steel) and I have to use a large tool to get the bolt tightened.

The other circumstance that has actually happened is get high centered on the submerged timber that is all over this lake. Can't get off with a trolling motor, its usually just not possible.

I got a emergency call from a fisherman a few years ago that I had to go and pull him off a log he was high centered on. It was a weekday and know one else on the lake.

That could have been a life threatening situation had it been a hot afternoon. This guy wasn't healthy enough to withstand a swim to the shore.

Then the thing with not having a propeller when taking boat on and off the water it is just a matter of time till someone slips trying to pull the

boat onto the trailer while standing on the trailer rails with wet feet. I

do it every time I go out on Harrisonville lake. Its tricky operation.

All the lakes I fish in Missouri, some quite a bit smaller have rules that

allow any motor, but for motors over 10 hp, are restricted to no wake. I

realize most of these are managed by the dept of conservation and they understand the need for safety outweighing the 5 percent of people who might abuse this no wake rule. Frankly my fishing boat being 17 aluminum and with a 75 hp motor makes less wake when on plain than a V-bottom boat with a 10 hp motor. So it just doesn't make sense to me to limit the safety net of having my propeller on the motor when needed.

So, that said my proposal is allow boats with over 10 hp to retain there propeller. Let these boats operate but a limited speed. Works just fine everywhere else in Missouri

Holden city lake, Hazel Hill, Watkins Mill, Concordia city Lake all have 10 hp limits but allow larger motors to operate at no wake speeds and don't require props to be removed. I am not aware of any lake that his this kind of restrictions.

Thanks for your time, I hope you can convince the committee that oversees these regulations to realize the current rules are dangerous and too restrictive.

Chris Burt
 1702 Wildhorse ct
 Raymore mo 64983
 Cell. 816-718-7588

Attachment: Chris Burt - 5-15 (1875 : BOATING RULES LAKE HARRISONVILLE)



Rules of
Department of Conservation
Division 10—Conservation Commission
Chapter 12—Wildlife Code: Special Regulations for
Areas Owned by Other Entities

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Attachment: State Code 3c10-12 (1875 : BOATING RULES LAKE HARRISONVILLE)



Title 3—DEPARTMENT OF CONSERVATION

Division 10—Conservation Commission Chapter 12—Wildlife Code: Special Regulations for Areas Owned by Other Entities

3 CSR 10-12.101 Title; Authority

PURPOSE: This rule establishes cooperative special provisions for public use activities on areas owned by other entities.

The special regulations in this chapter apply on lands and waters managed by the department under cooperative agreement.

AUTHORITY: sections 40 and 45 of Art. IV, Mo. Const. This rule previously filed as 3 CSR 10-4.116. Original rule filed April 30, 2001, effective Sept. 30, 2001.

3 CSR 10-12.105 Wildlife Refuges

PURPOSE: This rule establishes provisions for the designation of private property and property owned by government agencies other than the department as wildlife refuges.

(1) The Conservation Commission may establish wildlife refuges and special regulations on state, federal and private lands in cooperation with administering authorities for those lands. No wildlife of any kind may be molested, pursued, hunted or taken on any land posted as a refuge, except under conditions the commission may permit and declare by regulation. However, other government agencies may permit hunting and fishing under statewide regulations or under more restrictive provisions on refuges under their administration.

(2) State parks are designated as wildlife refuges.

AUTHORITY: sections 40 and 45 of Art. IV, Mo. Const. This rule previously filed as 3 CSR 10-4.116. Original rule filed April 30, 2001, effective Sept. 30, 2001.

3 CSR 10-12.109 Closed Hours

PURPOSE: This rule establishes closed hours for uses other than fishing and other conservation-related recreation at several areas managed in cooperation with other public entities.

(1) Closed Hours. The following areas are closed to public use from 10:00 p.m. to 4:00

a.m. daily; however, hunting, fishing, trapping, dog training, camping, launching boats, and landing boats are permitted at any time on areas where these activities are authorized, except as further restricted in this chapter.

(A) Bethany (North Bethany City Reservoir, Old Bethany City Reservoir)

(B) Bowling Green (West Lake and Jack Floyd Memorial Lake)

(C) Brookfield City Lake

(D) Buchanan County (Gasper Landing)

(E) Cameron (Reservoirs Nos. 1, 2, and 3 and Grindstone Reservoir)

(F) Department of Mental Health (Marshall Habilitation Center Lake)

(G) Empire District Electric Company (Ozark Beach Recreation Area)

(H) Kirksville (Hazel Creek Lake, Spur Pond)

(I) Lancaster (City Lake, Paul Bloch Memorial Pond)

(J) LaPlata City Lake

(K) Liberty (Fountain Bluff Park Ponds Nos. 1, 2, 3, 4, 5, 6, 7, and 8)

(L) Macon County (Fairground Lake)

(M) Marceline (Marceline City Lake, Old Marceline City Reservoir)

(N) Memphis (Lake Showme)

(O) Milan (Elmwood Lake)

(P) Monroe City (Route J Reservoir)

(Q) Palmyra (Akerson Access)

(R) Pemiscot County (Triangle Boat Club Access)

(S) Rockaway Beach Access

(T) Sedalia Water Department (Spring Fork Lake)

(U) Springfield City Utilities (Fellows Lake, Lake Springfield, Tailwaters Access)

AUTHORITY: sections 40 and 45 of Art. IV, Mo. Const. and section 252.240, RSMo 2000. Original rule filed June 1, 2001, effective Oct. 30, 2001. Amended: Filed Sept. 29, 2004, effective Feb. 28, 2005. Amended: Filed April 20, 2005, effective Sept. 30, 2005. Amended: Filed Sept. 14, 2005, effective Feb. 28, 2006. Amended: Filed Oct. 2, 2006, effective Feb. 28, 2007. Amended: Filed Sept. 27, 2007, effective Feb. 29, 2008. Amended: Filed April 30, 2008, effective Sept. 30, 2008. Amended: Filed March 12, 2010, effective Aug. 30, 2010. Amended: Filed Sept. 12, 2011, effective March 1, 2012. Amended: Filed March 13, 2012, effective Aug. 30, 2012. Amended: Filed March 12, 2013, effective Aug. 30, 2013. Amended: Filed Dec. 8, 2014, effective March 1, 2015.*

**Original authority: 252.240, RSMo 1972, amended 1984.*

3 CSR 10-12.110 Use of Boats and Motors

PURPOSE: This rule establishes provisions for use of boats and motors on areas under management agreement with the department.

(1) Boats may be used on areas managed by the department under cooperative agreement unless otherwise provided in this rule. Only electric motors may be used unless otherwise provided in this rule.

(2) Boats are prohibited on the following areas:

(A) Ballwin (New Ballwin Park Lake, Vlassis Park Lake);

(B) California (Proctor Park Lake);

(C) Cole County (Jaycee Park Lake);

(D) Columbia (Antimi Lake, Cosmo-Bethel Lake, Lake of the Woods);

(E) Confederate Memorial State Historic Site lakes;

(F) Dexter City Lake;

(G) Farmington (Giessing Lake, Hager Lake, Thomas Lake);

(H) Fenton (Preslar Lake, Upper Fabick Lake, Westside Lake);

(I) Ferguson (January-Wabash Park Lake);

(J) Fulton (Truman Lake, Veterans Park Lake);

(K) Jackson (Rotary Lake);

(L) Jackson County (Alex George Lake, Bergan Lake, Bowlin Pond, Fleming Pond, Scherer Lake, Wyatt Lake);

(M) Jefferson City (McKay Park Lake);

(N) Jennings (Koeneman Park Lake);

(O) Kirksville (Spur Pond);

(P) Kirkwood (Walker Lake);

(Q) Liberty (Fountain Bluff Park Ponds Nos. 1, 2, 3, 4, 5, 6, 7, and 8);

(R) Macon County (Fairgrounds Lake);

(S) Mexico (Kiwamis Lake);

(T) Mineral Area College (Quarry Pond);

(U) Mount Vernon (Williams Creek Park Lake);

(V) Overland (Wild Acres Park Lake);

(W) Potosi (Roger Bilderback Lake);

(X) Raymore (Johnston Lake);

(Y) Rolla (Schuman Park Lake);

(Z) St. Charles (Fountain Lakes Pond, Kluesner Lake, Moore Lake, Skate Park Lake);

(AA) St. James (Scioto Lake)

(BB) St. Louis (Benton Park Lake, Boathouse Lake, Fairgrounds Park Lake, Horseshoe Lake, Hyde Park Lake, Jefferson Lake, Lafayette Park Lake, North Riverfront Park Lake, O'Fallon Park Lake, North Lake, South Lake);

(CC) St. Louis County (Bee Tree Park Lake, Blackjack Lake, Carp Lake, Fountain Lake, Island Lake, Jarville Lake, Tilles Park Lake);

(DD) Sedalia (Clover Dell Park Lake, Liberty Park Pond);



(EE) Taos (Taos Countryside Park Lake);
 (FF) Tipton (Tipton Park Lake);
 (GG) University of Missouri (South Farm R-1 Lake); and
 (HH) Watershed Committee of the Ozarks (Valley Water Mill Lake).

(3) On the portion of Melvin Price Locks and Dam Pool 26, which has been designated a waterfowl refuge, boating is prohibited where posted from October 15 through April 15.

(4) Only boats without motors may be used on Columbia (Stephens Park Lake, Twin Lakes).

(5) Outboard motors not in excess of ten (10) horsepower may be used on the following area:

(A) Springfield City Utilities (Lake Springfield)

(6) Outboard motors in excess of ten (10) horsepower may be used but must be operated at slow, no-wake speed on the following areas:

(A) Bethany (North Bethany City Reservoir);

(B) Brookfield City Lake;

(C) Cameron (Grindstone Reservoir);

(D) Fayette (D.C. Rogers Lake, Peters Lake);

(E) Fredericktown City Lake;

(F) Little River Drainage District (Headwaters Diversion Channel);

(G) Higginsville (Higginsville City Lake, Upper Higginsville City Lake);

(H) Holden City Lake;

(I) La Plata City Lake;

(J) Macon City Lake;

(K) Marceline (Marceline City Lake, Old Marceline City Reservoir);

(L) Mark Twain National Forest (Council Bluff Lake, Palmer Lake);

(M) Maysville (Willow Brook Lake);

(N) Memphis (Lake Showme);

(O) Milan (Elmwood Lake);

(P) Moberly (Rothwell Park Lake, Sugar Creek Lake, and Water Works Lake);

(Q) Monroe City (Route J Reservoir);

(R) Unionville (Lake Mahoney);

(S) Wakonda State Park (Agate Lake and Wakonda Lake); and

(T) Watkins Mill State Park (Williams Creek Lake).

(7) On Springfield City Utilities (Fellows Lake):

(A) Boats are permitted for waterfowl hunting but must be launched at the ramp or hand launched at the designated blind site daily and removed from the lake by sunset daily.

(B) Outboard motors not in excess of forty (40) horsepower may be used.

(8) Outboard motors of any size may be used on Concordia (Edwin A. Pape Lake) and Odessa City Lake, but must be operated at slow, no-wake speed.

(9) No boat motor restrictions apply on Harrison County Lake and Maryville (Mozingo Lake).

(10) All boating on Smithville Lake Waterfowl Refuge is closed from October 15 through January 31 in units designated by posting.

*AUTHORITY: sections 40 and 45 of Art. IV, Mo. Const. and section 252.240, RSMo 2000. *This rule previously filed as 3 CSR 10-4.116. Original rule filed April 30, 2001, effective Sept. 30, 2001. Amended: Filed Aug. 30, 2001, effective Jan. 30, 2002. Amended: Filed May 9, 2002, effective March 1, 2003. Amended: Filed May 9, 2003, effective Oct. 30, 2003. Amended: Filed Oct. 9, 2003, effective March 30, 2004. Amended: Filed Oct. 8, 2004, effective March 30, 2005. Amended: Filed April 20, 2005, effective Sept. 30, 2005. Amended: Filed Sept. 14, 2005, effective Feb. 28, 2006. Amended: Filed May 23, 2006, effective June 15, 2006. Amended: Filed March 6, 2006, effective Aug. 30, 2006. Amended: Filed Sept. 27, 2007, effective Feb. 29, 2008. Amended: Filed Oct. 10, 2008, effective April 30, 2009. Amended: Filed March 23, 2009, effective Aug. 30, 2009. Amended: Filed Sept. 25, 2009, effective March 1, 2010. Amended: Filed March 12, 2010, effective Aug. 30, 2010. Amended: Filed Aug. 30, 2010, effective Jan. 30, 2011. Amended: Filed March 7, 2011, effective July 30, 2011. Amended: Filed Sept. 12, 2011, effective March 1, 2012. Amended: Filed March 13, 2012, effective Aug. 30, 2012. Amended: Filed Sept. 19, 2012, effective March 1, 2013. Amended: Filed March 12, 2013, effective Aug. 30, 2013. Amended: Filed Sept. 27, 2013, effective March 1, 2014. Amended: Filed March 17, 2014, effective Aug. 30, 2014.*

**Original authority: 252.240, RSMo 1972, amended 1984.*

3 CSR 10-12.115 Bullfrogs and Green Frogs

PURPOSE: This rule establishes provisions for harvesting bullfrogs and green frogs on areas under management agreement with the department.

(1) Bullfrogs and green frogs may be taken

during the statewide season only by hand, handnet, atlatl, gig, bow, snagging, snaring, grabbing, or pole and line except as further restricted by this chapter.

(A) Bows may not be used to take frogs on the following areas:

1. Blue Springs (Lake Remembrance);

2. Columbia (Antimi Lake, Cosmo-Bethel Lake, Lake of the Woods, A. Perry Philips Park Lake, Stephens Park Lake, Twin Lakes);

3. Farmington (Giessing Lake, Hager Lake, Thomas Lake);

4. Fulton (Morningside Lake, Truman Lake, Veterans Park Lake);

5. Jackson County (Alex George Lake, Bergan Lake, Bowlin Pond, Prairie Lee Lake, Scherer Lake, Tarsney Lake, Wood Lake, Wyatt Lake);

6. Mark Twain National Forest (department-managed portions);

7. Mexico (Lakeview Lake, Kiwanis Lake);

8. Moberly (Beuth Park Lake, Rothwell Park Lake, Water Works Lake);

9. Odessa (Lake Venita); and

10. St. James (Scioto Lake).

(B) Only pole and line may be used to take frogs on the following areas:

1. Ballwin (New Ballwin Park Lake, Vlasik Park Lake);

2. Butler City Lake;

3. Fenton (Preslar Lake, Upper Fabick Lake, Westside Lake);

4. Ferguson (January-Wabash Park Lake);

5. Jennings (Koeneman Park Lake);

6. Kirksville (Spur Pond);

7. Kirkwood (Walker Lake);

8. Liberty (Fountain Bluff Park Ponds Nos. 1, 2, 3, 4, 5, 6, 7, and 8);

9. Macon County (Fairgrounds Lake);

10. Mineral Area College (Quarry Pond);

11. Overland (Wild Acres Park Lake);

12. Potosi (Roger Bilderback Lake);

13. Raymore (Johnston Lake);

14. St. Charles (Fountain Lakes Pond, Kluesner Lake, Moore Lake, Skate Park Lake);

15. St. Louis (Benton Park Lake, Boathouse Lake, Fairgrounds Park Lake, Horseshoe Lake, Hyde Park Lake, Jefferson Lake, Lafayette Park Lake, North Riverfront Park Lake, O'Fallon Park Lake, North Lake, South Lake);

16. St. Louis County (Bee Tree Park Lake, Blackjack Lake, Carp Lake, Creve Coeur Park Lake, Fountain Lake, Island Lake, Jarville Lake, Simpson Park Lake, Spanish Lake, Sunfish Lake, Tilles Park Lake);



17. Sedalia (Clover Dell Park Lake, Liberty Park Pond);

18. Sedalia Water Department (Spring Fork Lake);

19. Warrensburg (Lions Lake);

20. Watershed Committee of the Ozarks (Valley Water Mill Lake);

21. Wentzville (Community Club Lake); and

22. Windsor (Farrington Park Lake).

(C) The taking of frogs is prohibited on the following areas:

1. Bennett Spring State Park;

2. Mark Twain National Forest (Carmen Springs Management Area);

3. Maramec Spring Park;

4. Montauk State Park;

5. Roaring River State Park; and

6. University of Missouri (Thomas S. Baskett Wildlife Research and Education Center), except on Ashland Lake.

(2) Firearms may not be used to take bullfrogs and green frogs.

AUTHORITY: sections 40 and 45 of Art. IV, Mo. Const. and section 252.240, RSMo 2000. This rule previously filed as 3 CSR 10-4.116. Original rule filed April 30, 2001, effective Sept. 30, 2001. Amended: Filed Oct. 9, 2003, effective March 30, 2004. Amended: Filed Oct. 8, 2004, effective March 30, 2005. Amended: Filed April 20, 2005, effective Sept. 30, 2005. Amended: Filed Aug. 24, 2005, effective Jan. 30, 2006. Amended: Filed March 6, 2006, effective Aug. 30, 2006. Amended: Filed Oct. 2, 2006, effective Feb. 28, 2007. Amended: Filed Aug. 14, 2007, effective Jan. 30, 2008. Amended: Filed Oct. 10, 2008, effective April 30, 2009. Amended: Filed March 23, 2009, effective Aug. 30, 2009. Amended: Filed March 12, 2010, effective Aug. 30, 2010. Amended: Filed Aug. 30, 2010, effective Jan. 30, 2011. Amended: Filed March 7, 2011, effective July 30, 2011. Amended: Filed Sept. 12, 2011, effective March 1, 2012. Amended: Filed Sept. 19, 2012, effective March 1, 2013. Amended: Filed Sept. 27, 2013, effective March 1, 2014.*

*Original authority: 252.240, RSMo 1972, amended 1984.

3 CSR 10-12.125 Hunting and Trapping

PURPOSE: This rule establishes provisions for hunting and trapping on areas under management agreement with the department.

PUBLISHER'S NOTE: The secretary of state has determined that the publication of the entire text of the material which is incorpo-

rated by reference as a portion of this rule would be unduly cumbersome or expensive. This material as incorporated by reference in this rule shall be maintained by the agency at its headquarters and shall be made available to the public for inspection and copying at no more than the actual cost of reproduction. This note applies only to the reference material. The entire text of the rule is printed here.

(1) Hunting, under statewide permits, seasons, methods, and limits, is permitted except as further restricted in this chapter and except for deer and turkey hunting as authorized in the annual *Fall Deer & Turkey Hunting Regulations and Information* booklet published in August and annual *Spring Turkey Hunting Regulations and Information* booklet published in March, which are incorporated in this *Code* by reference. A printed copy of these booklets can be obtained from the Missouri Department of Conservation, PO Box 180, Jefferson City, MO 65102-0180 and are also available online at www.missouriconservation.org. This rule does not incorporate any subsequent amendments or additions.

(A) Hunting may be further restricted on designated portions of areas which include shooting ranges, residences, work areas, campgrounds, and other public use or service areas.

(B) Hunting is prohibited on the following areas:

1. Bethany (Old Bethany City Reservoir);

2. Buchanan County (Gasper Landing);

3. California (Proctor Park Lake);

4. Carthage (Kellogg Lake);

5. Columbia (Antimi Lake, Cosmo-Bethel Lake, Lake of the Woods, Twin Lakes);

6. Dexter City Lake;

7. Farrington (Giessing Lake, Hager Lake, Thomas Lake);

8. Fenton (Preslar Lake, Upper Fabick Lake, Westside Lake);

9. Fulton (Morningside Lake, Truman Lake, Veterans Park Lake);

10. Hamilton City Lake;

11. Harrisonville (North Lake);

12. Jackson (Rotary Lake);

13. Jackson County (Alex George Lake, Bergan Lake, Bowlin Pond, Fleming Pond, Lake Jacomo, Prairie Lee Lake, Scherer Lake, Tarsney Lake, Wood Lake, Wyatt Lake);

14. Kirksville (Spur Pond);

15. Lawson City Lake;

16. Liberty (Fountain Bluff Park Ponds Nos. 1, 2, 3, 4, 5, 6, 7, and 8);

17. Macon County (Fairgrounds Lake);

18. Mexico (Lakeview Lake, Kiwanis Lake);

19. Mineral Area College (Quarry Pond);

20. Moberly (Rothwell Park Lake, Water Works Lake);

21. Mount Vernon (Williams Creek Park Lake);

22. Odessa (Lake Venita);

23. Overland (Wild Acres Park Lake);

24. Potosi (Roger Bilderback Lake);

25. Raymore (Johnston Lake);

26. Rolla (Schuman Park Lake);

27. St. Charles (Fountain Lakes Pond, Kluesner Lake, Moore Lake, Skate Park Lake);

28. St. James (Scioto Lake);

29. St. Louis County (Bee Tree Park Lake, Blackjack Lake, Carp Lake, Creve Coeur Park Lake, Fountain Lake, Island Lake, Jarville Lake, Simpson Park Lake, Spanish Lake, Sunfish Lake);

30. Savannah City Lake;

31. Sedalia (Clover Dell Park Lake);

32. Sedalia Water Department (Spring Fork Lake);

33. Springfield City Utilities (Lake Springfield);

34. University of Missouri (Thomas S. Baskett Wildlife Research and Education Center);

35. Warrensburg (Lions Lake);

36. Watershed Committee of the Ozarks (Valley Water Mill Lake); and

37. Windsor (Farrington Park Lake).

(C) Firearms hunting is prohibited on Cameron (Reservoir Nos. 1, 2, and 3, Grindstone Reservoir) and Maysville (Willow Brook Lake), except waterfowl hunting is permitted under statewide regulations on Cameron (Grindstone Reservoir) and Maysville (Willow Brook Lake).

(D) On Mingo National Wildlife Refuge:

1. Squirrels may only be taken from the fourth Saturday in May through September 30 in designated areas by hunters properly registered at the refuge or Duck Creek Conservation Area.

2. Waterfowl hunting is prohibited after 1:00 p.m. and on December 25.

3. Waterfowl may be taken only by holders of a valid area daily hunting tag and only from a blind or in a designated area, except that hunters may retrieve dead birds and pursue and shoot downed cripples outside the designated area.

4. Waterfowl hunters must check out immediately after the close of their hunting trip and prior to processing birds.



5. Nonhunters are prohibited within the shooting areas during the waterfowl hunting season unless they are members of and remain with a party authorized to use the area, except that portions of these areas may be open to fishing during all or part of the waterfowl season.

6. Hunting of wildlife other than waterfowl is prohibited, except in designated areas, from October 15 through the end of the prescribed waterfowl season.

(E) On the portion of Melvin Price Locks and Dam Pool 26, which has been designated a waterfowl refuge, shooting, hunting, and off-road vehicles are prohibited at all times.

(F) Waterfowl hunting is prohibited after 1:00 p.m. on Odessa (Odessa City Lake, Upper Odessa City Lake).

(G) On Springfield City Utilities (Fellows Lake):

1. Hunting of wildlife other than waterfowl is prohibited, except in designated areas, from October 15 through the end of the prescribed waterfowl season.

2. Waterfowl hunting is permitted except as further restricted in this chapter. Statewide permits, seasons, methods, and limits apply unless otherwise provided in this chapter.

3. Waterfowl hunting is permitted until 1:00 p.m. Waterfowl hunters must check out immediately after the close of their hunting trip and prior to processing birds by accurate completion and return of the daily waterfowl hunting tag to designated locations.

4. Blinds and/or blind sites shall be designated and allotted through a system of registration and drawing established by the department. Blinds must be constructed within fifty (50) yards of an assigned site only during the dates assigned by the department. Blinds may be constructed using willows (*Salicaceae*), cedar (*Juniperus virginiana*), and non-woody vegetation collected on-site.

5. Waterfowl may be taken only by holders of a valid area daily waterfowl hunting tag and only from a designated blind or blind site, except that hunters may retrieve dead birds and pursue and shoot downed cripples. Blinds or blind sites may not be locked, transferred, rented, or sold. After 6:00 a.m., unoccupied blinds may be used by the first hunter to arrive.

6. Nonhunters are prohibited within the shooting areas during the waterfowl hunting season unless they are members of, and remain with, a party authorized to use the area, except that the north arm of the lake from a line extending from the point separating the north and south arms of the lake to the north end of the buoy line nearest the dam is open to fishing during all or part of the waterfowl season.

(H) All hunting is closed on Smithville Lake Waterfowl Refuge from October 15 through January 31 in units designated by posting.

(2) Deer and turkey may be hunted on any area managed by the department under cooperative agreement and as authorized in the current *Fall Deer & Turkey Hunting Regulations and Information* booklet and current *Spring Turkey Hunting Regulations and Information* booklet.

(3) Trapping is allowed only with a special use permit. Trappers must comply with Chapter 8 of this Code.

*AUTHORITY: sections 40 and 45 of Art. IV, Mo. Const. and section 252.240, RSMo 2000. * This rule previously filed as 3 CSR 10-4.116. Original rule filed April 30, 2001, effective Sept. 30, 2001. Amended: Filed May 9, 2002, effective Oct. 30, 2002. Amended: Filed Oct. 9, 2003, effective March 30, 2004. Amended: Filed Oct. 8, 2004, effective March 30, 2005. Amended: Filed April 20, 2005, effective Sept. 30, 2005. Amended: Filed Aug. 24, 2005, effective Jan. 30, 2006. Amended: Filed May 23, 2006, effective June 15, 2006. Amended: Filed March 6, 2006, effective Aug. 30, 2006. Amended: Filed Sept. 27, 2007, effective Feb. 29, 2008. Amended: Filed Oct. 10, 2008, effective April 30, 2009. Amended: Filed March 23, 2009, effective July 1, 2009. Amended: Filed Sept. 25, 2009, effective March 1, 2010. Amended: Filed March 12, 2010, effective Sept. 1, 2010. Amended: Filed Aug. 30, 2010, effective Jan. 30, 2011. Amended: Filed March 7, 2011, effective July 30, 2011. Amended: Filed Sept. 12, 2011, effective March 1, 2012. Amended: Filed March 13, 2012, effective Aug. 30, 2012. Amended: Filed Sept. 19, 2012, effective March 1, 2013. Amended: Filed Sept. 27, 2013, effective March 1, 2014.*

**Original authority: 252.240, RSMo 1972, amended 1984.*

3 CSR 10-12.130 Fishing, General Provisions and Seasons

PURPOSE: This rule establishes where and when fishing is allowed on areas under management agreement with the department.

(1) Fishing, under statewide permits, seasons, methods, and limits, is permitted except as further restricted in this chapter.

(2) Fishing is prohibited where designated by signs.

(3) Fishing is permitted only by reservation

by educational groups, and fish must be returned to the water unharmed immediately after being caught except as provided by special use permit on the following areas or individually named lakes:

(A) Chillicothe R-2 School District (Litton Center Pond)

(B) Jackson County (Fleming Park ponds)

(C) Missouri Western State University (South Pond)

(D) St. Louis County (Suson Rearing Pond)

(E) St. Louis (Forest Park-Bullfrog Lake, Catfish Cove, Cypress Lake, Fish Tail Lake)

(4) Fishing is restricted to persons fifteen (15) years of age or younger on the following areas or individually named lakes:

(A) Liberty (Fountain Bluff Park Pond No. 8)

(5) Fishing is prohibited on Mark Twain National Forest (Carmen Spring Management Area).

(6) On Mingo National Wildlife Refuge, fishing is permitted on all waters from March 15 through September 30. From October 1 through March 14, fishing is permitted on designated waters only.

(7) All fishing on Smithville Lake Waterfowl Refuge is closed from October 15 through January 31 in units designated by posting.

*AUTHORITY: sections 40 and 45 of Art. IV, Mo. Const. and section 252.240, RSMo 2000. * This rule previously filed as 3 CSR 10-4.116. Original rule filed April 30, 2001, effective Sept. 30, 2001. Amended: Filed June 4, 2004, effective Nov. 30, 2004. Amended: Filed May 23, 2006, effective June 15, 2006. Amended: Filed Oct. 2, 2006, effective Feb. 28, 2007. Amended: Filed Aug. 14, 2007, effective Jan. 30, 2008. Amended: Filed Sept. 27, 2007, effective Feb. 29, 2008. Amended: Filed Sept. 25, 2009, effective March 1, 2010. Amended: Filed March 12, 2010, effective Aug. 30, 2010. Amended: Filed Sept. 12, 2011, effective March 1, 2012.*

**Original authority: 252.240, RSMo 1972, amended 1984.*

3 CSR 10-12.135 Fishing, Methods

PURPOSE: This rule establishes provisions for fishing methods on areas under management agreement with the department.

(1) Fishing methods, other than the use of pole and line with lure or bait, are prohibited on lakes and ponds managed by the department under a cooperative agreement except as otherwise provided in this rule.



(2) A person may use no more than three (3) poles at any time.

(3) Gizzard shad may be taken from lakes and ponds by dip net or throw net, except at the following areas:

(A) Ballwin (New Ballwin Park Lake, Vlasius Park Lake)

(B) Fenton (Preslar Lake, Upper Fabick Lake, Westside Lake)

(C) Ferguson (January-Wabash Park Lake)

(D) Jennings (Koeneman Park Lake)

(E) Kirkwood (Walker Lake)

(F) Liberty (Fountain Bluff Park Ponds Nos. 1, 2, 3, 4, 5, 6, 7, and 8)

(G) Overland (Wild Acres Park Lake)

(H) St. Louis (Benton Park Lake, Boathouse Lake, Fairgrounds Park Lake, Horseshoe Lake, Hyde Park Lake, Jefferson Lake, Lafayette Park Lake, North Riverfront Park Lake, O'Fallon Park Lake, North Lake, South Lake)

(I) St. Louis County (Bee Tree Park Lake, Blackjack Lake, Carp Lake, Creve Coeur Park Lake, Fountain Lake, Island Lake, Jarville Lake, Simpson Park Lake, Spanish Lake, Sunfish Lake, Tilles Park Lake)

(4) Carp, buffalo, suckers, and gar may be taken by atlatl, gig, bow, or crossbow during statewide seasons on the following lakes:

(A) Brookfield City Lake

(B) Bethany (North Bethany City Reservoir)

(C) Cameron (Reservoir Nos. 1, 2, and 3, Grindstone Reservoir)

(D) Fayette (D.C. Rogers Lake, Peters Lake)

(E) Hamilton City Lake

(F) Harrison County Lake

(G) Jackson County (Lake Jacomo, north of Colbern Road)

(H) Kirksville (Hazel Creek Lake)

(I) Maryville (Mozingo Lake)

(J) Macon City Lake

(K) Marceline (Marceline City Lake, Old Marceline City Reservoir)

(L) Maysville (Willow Brook Lake)

(M) Memphis (Lake Showme)

(N) Moberly (Sugar Creek Lake)

(O) St. Louis County (Sunfish Lake)

(P) Thousand Hills State Park (Forest Lake)

(Q) Unionville (Lake Mahoney)

(R) Wakonda State Park lakes

(5) Carp, buffalo, suckers, and gar may be taken by gig during statewide seasons on Jackson County (Prairie Lee Lake).

(6) Carp, buffalo, gar, and shad may be taken by bow from sunrise to midnight throughout the year on Concordia (Edwin A. Pape Lake)

and Higginsville (Higginsville City Lake, Upper Higginsville City Lake).

(7) Fish may be taken with limb lines and bank lines on Thousand Hills State Park (Forest Lake).

(8) Only flies, artificial lures, and soft plastic baits (unscented) may be used from November 1 through January 31 on the following lakes:

(A) Columbia (Cosmo-Bethel Lake)

(B) Jackson (Rotary Lake)

(C) Jefferson City (McKay Park Lake)

(D) Jennings (Koeneman Park Lake)

(E) Kirksville (Spur Pond)

(F) Kirkwood (Walker Lake)

(G) Mexico (Kiwanis Lake)

(H) Missouri Western State University (Everyday Pond)

(I) Overland (Wild Acres Park Lake)

(J) Sedalia (Liberty Park Pond)

(K) St. Louis (Jefferson Lake)

(L) St. Louis County (Tilles Park Lake)

(9) From November 1 through January 31, not more than one (1) pole and line may be used by one (1) person at any time and the use of natural or scented baits as chum is prohibited on the following lakes:

(A) Ballwin (Vlasius Park Lake)

(B) Ferguson (January-Wabash Park Lake)

(C) Jackson (Rotary Lake)

(D) Jennings (Koeneman Park Lake)

(E) Kirkwood (Walker Lake)

(F) Overland (Wild Acres Park Lake)

(G) St. Louis (Boathouse Lake, Jefferson Lake, O'Fallon Park Lake)

(H) St. Louis County (Carp Lake, Island Lake, Tilles Park Lake)

(10) On Mingo National Wildlife Refuge, other fish as designated in 3 CSR 10-6.550 may be taken for personal use by nets and seines from March 15 through September 30. All gear shall be plainly labeled on a durable material with the name and address of the person using the equipment.

AUTHORITY: sections 40 and 45 of Art. IV, Mo. Const. and section 252.240, RSMo 2000. * This rule previously filed as 3 CSR 10-4.116. Original rule filed April 30, 2001, effective Sept. 30, 2001. Amended: Filed Aug. 30, 2001, effective Jan. 30, 2002. Amended: Filed May 9, 2002, effective Oct. 30, 2002. Amended: Filed July 31, 2002, effective March 1, 2003. Amended: Filed May 9, 2003, effective Oct. 30, 2003. Amended: Filed Aug. 1, 2003, effective Nov. 1, 2003. Amended: Filed Oct. 9, 2003, effective March 30, 2004. Amended: Filed Sept. 29, 2004, effective Feb. 28, 2005. Amended:

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*Original authority: 252.240, RSMo 1972, amended 1984.

3 CSR 10-12.140 Fishing, Daily and Possession Limits

PURPOSE: This rule establishes daily and possession limits for fish on areas under management agreement with the department.

(1) Statewide daily limits shall apply for all species, except as otherwise provided in this rule.

(2) The daily limit for black bass is two (2) on the following lakes:

(A) Arrow Rock State Historic Site (Big Soldier Lake);

(B) Ballwin (New Ballwin Park Lake, Vlasius Park Lake);

(C) Blue Springs (Lake Remembrance);

(D) Butler City Lake;

(E) Columbia (Stephens Park Lake, Twin Lakes);

(F) Concordia (Edwin A. Pape Lake);

(G) Confederate Memorial State Historic Site lakes;

(H) Fenton (Preslar Lake, Upper Fabick Lake, Westside Lake);

(I) Ferguson (January-Wabash Lake);

(J) Higginsville (Higginsville City Lake, Upper Higginsville City Lake);

(K) Jackson County (Alex George Lake, Bergan Lake, Bowlin Pond, Lake Jacomo, Prairie Lee Lake, Scherer Lake, Tarsney Lake, Wood Lake, Wyatt Lake);

(L) Jefferson City (McKay Park Lake);

(M) Jennings (Koeneman Park Lake);

(N) Keytesville (Maxwell Taylor Park Pond);

(O) Kirkwood (Walker Lake);

(P) Liberty (Fountain Bluff Park Ponds Nos. 1, 2, 3, 4, 5, 6, 7, and 8);

(Q) Mexico (Teal Lake);

(R) Mineral Area College (Quarry Pond);



- (S) Overland (Wild Acres Park Lake);
- (T) Potosi (Roger Bilderback Lake);
- (U) Raymore (Johnston Lake);
- (V) Sedalia Water Department (Spring Fork Lake);
- (W) St. Charles (Fountain Lakes Pond, Kluesner Lake, Moore Lake, Skate Park Lake);
- (X) St. Louis (Benton Park Lake, Boat-house Lake, Fairgrounds Park Lake, Horseshoe Lake, Hyde Park Lake, Jefferson Lake, Lafayette Park Lake, North Riverfront Park Lake, O'Fallon Park Lake, North Lake, South Lake);
- (Y) St. Louis County (Bee Tree Park Lake, Blackjack Lake, Carp Lake, Creve Coeur Park Lake, Fountain Lake, Island Lake, Jarville Lake, Simpson Park Lake, Spanish Lake, Sunfish Lake, Tilles Park Lake);
- (Z) University of Missouri (South Farm R-1 Lake);
- (AA) Warrensburg (Lions Lake);
- (BB) Watkins Mill State Park (Williams Creek Lake);
- (CC) Wentzville (Community Club Lake); and
- (DD) Windsor (Farrington Park Lake).

(3) The daily and possession limit for black bass is twelve (12) in the aggregate on Cuivre River State Park (Lincoln Lake).

(4) The daily limit for channel catfish, blue catfish, and flathead catfish in the aggregate is four (4).

(5) The daily limit for crappie is fifteen (15) on the following lakes:

- (A) Ballwin (New Ballwin Park Lake, Vlasius Park Lake);
- (B) Fenton (Preslar Lake, Upper Fabick Lake, Westside Lake);
- (C) Ferguson (January-Wabash Lake);
- (D) Kirksville (Hazel Creek Lake);
- (E) St. Charles (Fountain Lakes Pond, Kluesner Lake, Moore Lake, Skate Park Lake);
- (F) St. Louis (Benton Park Lake, Boathouse Lake, Fairgrounds Park Lake, Horseshoe Lake, Hyde Park Lake, Jefferson Lake, Lafayette Park Lake, North Riverfront Park Lake, O'Fallon Park Lake, North Lake, South Lake);
- (G) St. Louis County (Bee Tree Park Lake, Blackjack Lake, Carp Lake, Creve Coeur Park Lake, Fountain Lake, Island Lake, Jarville Lake, Simpson Park Lake, Spanish Lake, Sunfish Lake, Tilles Park Lake); and
- (H) Springfield City Utilities (Fellows Lake).

(6) The daily limit for white bass, striped bass, and their hybrids in the aggregate is four (4) on the following lakes:

- (A) Cameron (Reservoir No. 3);
- (B) Hamilton (Hamilton City Lake);
- (C) Maysville (Willow Brook Lake);
- (D) St. Louis County (Sunfish Lake); and
- (E) Watkins Mill State Park (Williams Creek Lake).

(7) The daily limit for bluegill is ten (10) on Liberty (Fountain Bluff Park Ponds Nos. 1, 2, 3, 4, 5, 6, 7, and 8).

(8) The daily limit for fish other than those species listed as endangered in 3 CSR 10-4.111 or defined as game fish is twenty (20) in the aggregate, except on the following lakes where the daily limit is ten (10) in the aggregate, and except for those fish included in section (7) of this rule:

- (A) Ballwin (New Ballwin Park Lake, Vlasius Park Lake);
- (B) Fenton (Preslar Lake, Upper Fabick Lake, Westside Lake);
- (C) Columbia (Stephens Park Lake);
- (D) Ferguson (January-Wabash Lake);
- (E) Jennings (Koeneman Park Lake);
- (F) Kirkwood (Walker Lake);
- (G) Mineral Area College (Quarry Pond);
- (H) Overland (Wild Acres Park Lake);
- (I) Potosi (Roger Bilderback Lake);
- (J) St. Charles (Fountain Lakes Pond, Kluesner Lake, Moore Lake, Skate Park Lake);
- (K) St. Louis (Benton Park Lake, Boathouse Lake, Fairgrounds Park Lake, Horseshoe Lake, Hyde Park Lake, Jefferson Lake, Lafayette Park Lake, North Riverfront Park Lake, O'Fallon Park Lake, North Lake, South Lake);
- (L) St. Louis County (Bee Tree Park Lake, Blackjack Lake, Carp Lake, Creve Coeur Park Lake, Fountain Lake, Island Lake, Jarville Lake, Simpson Park Lake, Spanish Lake, Sunfish Lake, Tilles Park Lake);
- (M) University of Missouri (McCredie Lake);
- (N) Watershed Committee of the Ozarks (Valley Water Mill Lake); and
- (O) Wentzville (Community Club Lake).

(9) Trout must be returned to the water unharmed immediately after being caught from November 1 through January 31 on the lakes listed below. Trout may not be possessed on these waters during this season.

- (A) Columbia (Cosmo-Bethel Lake)
- (B) Jackson (Rotary Lake)
- (C) Jefferson City (McKay Park Lake)
- (D) Jennings (Koeneman Park Lake)
- (E) Kirksville (Spur Pond)
- (F) Kirkwood (Walker Lake)
- (G) Mexico (Kiwaniis Lake)

(H) Missouri Western State University (Everyday Pond)

- (I) Overland (Wild Acres Park Lake)
- (J) Sedalia (Liberty Park Pond)
- (K) St. Louis (Jefferson Lake)
- (L) St. Louis County (Tilles Park Lake)

(10) No person shall continue to fish for any species after having four (4) trout in possession on the following lakes:

- (A) Ballwin (Vlasius Park Lake)
- (B) Ferguson (January-Wabash Park Lake)
- (C) St. Louis (Boathouse Lake, O'Fallon Park Lake)
- (D) St. Louis County (Carp Lake, Island Lake)

(11) On Missouri Western State University (Everyday Pond), fish must be returned to the water unharmed immediately after being caught except that trout may be taken from February 1 through October 31.

(12) No person shall continue to fish for any species after having four (4) trout in possession, from February 1 through October 31, on the following lakes:

- (A) Jennings (Koeneman Park Lake)
- (B) Kirkwood (Walker Lake)
- (C) Overland (Wild Acres Park Lake)
- (D) St. Louis (Jefferson Lake)
- (E) St. Louis County (Tilles Park Lake)

AUTHORITY: sections 40 and 45 of Art. IV, Mo. Const. and section 252.240, RSMo 2000. This rule previously filed as 3 CSR 10-4.116. Original rule filed April 30, 2001, effective Sept. 30, 2001. Amended: Filed Aug. 30, 2001, effective Jan. 30, 2002. Amended: Filed May 9, 2002, effective Oct. 30, 2002. Amended: Filed July 31, 2002, effective March 1, 2003. Amended: Filed May 9, 2003, effective Oct. 30, 2003. Amended: Filed Aug. 1, 2003, effective Nov. 1, 2003. Amended: Filed Oct. 9, 2003, effective March 30, 2004. Amended: Filed June 4, 2004, effective Nov. 30, 2004. Amended: Filed Oct. 8, 2004, effective March 30, 2005. Amended: Filed April 20, 2005, effective Sept. 30, 2005. Amended: Filed Oct. 13, 2005, effective Nov. 1, 2005. Amended: Filed March 6, 2006, effective Aug. 30, 2006. Amended: Filed Aug. 23, 2006, effective Nov. 1, 2006. Amended: Filed Aug. 14, 2007, effective Nov. 1, 2007. Amended: Filed April 30, 2008, effective Sept. 30, 2008. Amended: Filed Oct. 10, 2008, effective April 30, 2009. Amended: Filed March 23, 2009, effective Aug. 30, 2009. Amended: Filed Sept. 25, 2009, effective March 1, 2010. Amended: Filed March 12, 2010, effective Aug. 30, 2010. Amended: Filed Aug. 30, 2010, effective Jan. 30, 2011. Amended: Filed March 7, 2011, effective July 30, 2011. Amended: Filed Sept. 12, 2011, effective March 1, 2012.*



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**Original authority: 252.240, RSMo 1972, amended 1984.*

3 CSR 10-12.145 Fishing, Length Limits

PURPOSE: *This rule establishes length limits on fish for areas under management agreement with the department.*

(1) Statewide length limits shall apply for all species, except as otherwise provided in this rule.

(2) Black bass more than twelve inches (12") but less than fifteen inches (15") total length must be returned to the water unharmed immediately after being caught, except as follows:

(A) Black bass less than fifteen inches (15") total length must be returned to the water unharmed immediately after being caught on the following lakes:

1. Arrow Rock State Historic Site (Big Soldier Lake);
2. Bethany (Old Bethany City Reservoir);
3. Blue Springs (Lake Remembrance);
4. Big Oak Tree State Park (Big Oak Lake);
5. Butler City Lake;
6. Cameron (Reservoir Nos. 1, 2, and 3, Grindstone Reservoir);
7. Carthage (Kellogg Lake);
8. Columbia (Stephens Park Lake);
9. Concordia (Edwin A. Pape Lake);
10. Confederate Memorial State Historic Site lakes;
11. Dexter City Lake;
12. Farmington (Hager Lake, Giessing Lake, Thomas Lake);
13. Hamilton City Lake;
14. Harrison County Lake;
15. Higginsville (Higginsville City Lake, Upper Higginsville City Lake);
16. Holden City Lake;
17. Jackson (Litz Park Lake, Rotary Lake);
18. Jackson County (Alex George Lake, Bergan Lake, Bowlin Pond, Lake Jacomo, Prairie Lee Lake, Scherer Lake, Tarsney Lake, Wood Lake, Wyatt Lake);
19. Jefferson City (McKay Park Lake);
20. Keytesville (Maxwell Taylor Park Pond);
21. Kirksville (Hazel Creek Lake);
22. Liberty (Fountain Bluff Park Ponds Nos. 1, 2, 3, 4, 5, 6, 7, and 8);

23. Maysville (Willow Brook Lake);
24. Mark Twain National Forest (Fourche Lake, Huzzah Pond, Loggers Lake, McCormack Lake, Noblett Lake, Roby Lake);
25. Mineral Area College (Quarry Pond);

26. Odessa (Lake Venita);
27. Pershing State Park ponds;
28. Potosi (Roger Bilderback Lake);
29. Raymore (Johnston Lake);
30. Unionville (Lake Mahoney);
31. University of Missouri (Dairy Farm Lake No. 1, McCredie Lake);
32. Warrensburg (Lions Lake);
33. Watkins Mill State Park (Williams Creek Lake); and
34. Windsor (Farrington Park Lake).

(B) Black bass less than eighteen inches (18") total length must be returned to the water unharmed immediately after being caught on the following lakes:

1. Ballwin (New Ballwin Park Lake, Vlasik Park Lake)
2. Columbia (Twin Lake);
3. Fenton (Preslar Lake, Upper Fabick Lake, Westside Lake);
4. Ferguson (January-Wabash Lake);
5. Jennings (Koeneman Park Lake);
6. Kirkwood (Walker Lake);
7. Overland (Wild Acres Park Lake);
8. Sedalia Water Department (Spring Fork Lake);
9. St. Charles (Fountain Lakes Pond, Kluesner Lake, Moore Lake, Skate Park Lake);
10. St. Louis (Benton Park Lake, Boathouse Lake, Fairgrounds Park Lake, Horseshoe Lake, Hyde Park Lake, Jefferson Lake, Lafayette Park Lake, North Riverfront Park Lake, O'Fallon Park Lake, North Lake, South Lake);
11. St. Louis County (Bee Tree Park Lake, Blackjack Lake, Carp Lake, Creve Coeur Park Lake, Fountain Lake, Island Lake, Jarville Lake, Simpson Park Lake, Spanish Lake, Sunfish Lake, Tilles Park Lake);
12. University of Missouri (South Farm R-1 Lake); and
13. Wentzville (Community Club Lake);

(C) Black bass less than twenty inches (20") total length must be returned to the water unharmed immediately after being caught on Mexico (Teal Lake); and

(D) There is no length limit on black bass on Cuivre River State Park (Lincoln Lake).

(3) White bass, striped bass, and their hybrids less than twenty inches (20") total length must be returned to the water unharmed immediately after being caught on the following lakes:

- (A) Cameron (Reservoir No. 3);
- (B) Hamilton (Hamilton City Lake);
- (C) Maysville (Willow Brook Lake);
- (D) St. Louis County (Sunfish Lake); and

(E) Watkins Mill State Park (Williams Creek Lake)

(4) Bluegill less than eight inches (8") total length must be returned to the water unharmed immediately after being caught on Columbia (Stephens Park Lake).

(5) Bluegill less than nine inches (9") total length must be returned to the water unharmed immediately after being caught on University of Missouri (McCredie Lake).

(6) Flathead catfish less than twenty-four inches (24") total length must be returned to the water unharmed immediately after being caught on Concordia (Edwin A. Pape Lake), Higginsville (Higginsville City Lake, Upper Higginsville City Lake), Maysville (Willow Brook Lake), and St. Louis County (Bee Tree Park Lake, Sunfish Lake).

(7) Walleye less than eighteen inches (18") total length must be returned to the water unharmed immediately after being caught on Memphis (Lake Showme).

AUTHORITY: *sections 40 and 45 of Art. IV, Mo. Const. and section 252.240, RSMo 2000.* This rule previously filed as 3 CSR 10-4.116. Original rule filed April 30, 2001, effective Sept. 30, 2001. Amended: Filed Aug. 30, 2001, effective Jan. 30, 2002. Amended: Filed May 9, 2002, effective Oct. 30, 2002. Amended: Filed July 31, 2002, effective March 1, 2003. Amended: Filed Oct. 9, 2003, effective March 30, 2004. Amended: Filed Oct. 8, 2004, effective March 30, 2005. Amended: Filed April 20, 2005, effective Sept. 30, 2005. Amended: Filed Sept. 14, 2005, effective Feb. 28, 2006. Amended: Filed March 6, 2006, effective Aug. 30, 2006. Amended: Filed Oct. 2, 2006, effective Feb. 28, 2007. Amended: Filed Aug. 14, 2007, effective Jan. 30, 2008. Amended: Filed Oct. 10, 2008, effective April 30, 2009. Amended: Filed March 23, 2009, effective Aug. 30, 2009. Amended: Filed Sept. 25, 2009, effective March 1, 2010. Amended: Filed March 12, 2010, effective Aug. 30, 2010. Amended: Filed Aug. 30, 2010, effective Jan. 30, 2011. Amended: Filed March 7, 2011, effective July 30, 2011. Amended: Filed Sept. 12, 2011, effective March 1, 2012. Amended: Filed Sept. 19, 2012, effective March 1, 2013. Amended: Filed Sept. 27, 2013, effective March 1, 2014. Amended: Filed March 7, 2014, effective March 17, 2014. Amended: Filed March 17, 2014, effective Aug. 30, 2014.*

**Original authority: 252.240, RSMo 1972, amended 1984.*

**3 CSR 10-12.150 Fishing, Trout Parks**

PURPOSE: This rule establishes methods, seasons, and limits for fishing within Trout Park streams under management agreement with the department.

(1) On Maramec Spring Park, Bennett Spring State Park, Montauk State Park, and Roaring River State Park—

(A) Fishing is permitted on designated waters during posted hours. Not more than one (1) pole and line may be used by one (1) person at any time. Giggling, snaring, snagging, and the taking of live bait are prohibited. Flies, artificial lures, unscented soft plastic baits and natural and scented baits may be used, except in waters posted as restricted to specific baits or lures. The use of any foods to attract fish, except when placed on a hook, is prohibited.

(B) Trout fishing is permitted from March 1 through October 31. The daily limit is four (4) trout, and no person shall continue to fish for any species after having four (4) trout in possession. Fishing in the designated trout waters is permitted only by holders of a signed valid area daily trout fishing tag, except that fishing is permitted by holders of either a valid signed daily tag or a valid trout permit from the first bridge below the old dam in Zone 3 at Roaring River State Park to the downstream park boundary.

(C) On a designated portion of Montauk State Park and Roaring River State Park, catch and release trout fishing only is permitted from March 1 through October 31. Only flies may be used, and trout must be returned to the water unharmed immediately after being caught. Trout may not be possessed in these designated areas, and no person with four (4) trout already in possession may fish there.

(D) Trout fishing is permitted from 8:00 a.m. to 4:00 p.m. on Fridays, Saturdays, Sundays, and Mondays from the second Friday in November through the second Monday in February at Bennett Spring State Park, Montauk State Park, and Roaring River State Park. Fishing in designated trout waters is permitted only by holders of a valid trout permit. Only flies may be used, and all fish must be returned to the water unharmed immediately after being caught. Fish may not be possessed on these waters.

(E) Trout fishing is permitted from 8:00 a.m. to 4:00 p.m. daily from the second Friday in November through the second Monday in February at Maramec Spring Park. Fishing is permitted only by holders of a valid trout permit. Only flies may be used and all fish must be returned to the water unharmed immediately after being caught. Fish may not be possessed on these waters.

(F) The use of shoes, boots, or waders with porous soles incorporating or having felt, matted, or woven fibrous materials is prohibited.

AUTHORITY: sections 40 and 45 of Art. IV, Mo. Const. and section 252.240, RSMo 2000. This rule previously filed as 3 CSR 10-4.116. Original rule filed April 30, 2001, effective Sept. 30, 2001. Amended: Filed Sept. 29, 2004, effective Feb. 28, 2005. Amended: Filed April 20, 2005, effective Sept. 30, 2005. Amended: Filed Aug. 23, 2006, effective Nov. 1, 2006. Amended: Filed Sept. 27, 2007, effective Feb. 29, 2008. Amended: Filed Sept. 12, 2011, effective March 1, 2012.*

**Original authority: 252.240, RSMo 1972, amended 1984.*

3 CSR 10-12.155 Fishing, Stone Mill Spring Branch

PURPOSE: This rule establishes methods, seasons, and limits for fishing within Stone Mill Spring Branch, located on U.S. Forest Service land in Pulaski County.

(1) On Stone Mill Spring Branch:

(A) Fishing is permitted on designated waters during posted hours. Not more than one (1) pole and line may be used by one (1) person at any time. Giggling, snaring, snagging, and the taking of live bait are prohibited. The use of any foods to attract fish, except when placed on a hook, is prohibited.

(B) From the last Saturday in February through October 31, trout fishing is permitted using flies, artificial lures, unscented soft plastic baits, and natural and scented baits. The daily limit is four (4) trout, and no person shall continue to fish for any species after having four (4) trout in possession. All anglers must have a valid trout permit to possess and transport trout.

(C) From November 1 through the Friday immediately preceding the last Saturday in February, only flies and artificial lures may be used. All fish must be returned to the water unharmed immediately after being caught, and fish may not be possessed on these waters.

AUTHORITY: sections 40 and 45 of Art. IV, Mo. Const. and section 252.240, RSMo 2000. Original rule filed June 4, 2004, effective Nov. 30, 2004. Amended: Filed Oct. 2, 2006, effective Feb. 28, 2007. Amended: Filed Aug. 30, 2010, effective Jan. 30, 2011.*

**Original authority: 252.240, RSMo 1972, amended 1984.*

Lake Jacomo

Boat & Motor Permits



Boat and motor permits are required for the use of all Jackson County lakes and waterways. All Kayaks, Canoes, inflatable rafts, pedal boats, windsurfers, stand up-paddle boards (SUP's), sailboards and all similar type of watercraft are required to display a Jackson County Boat Permit as described below. All watercraft must be at least 8 feet in length. Annual and one-day ramp permits are available.

In order to purchase annual boat and motor permits, you need proof of ownership of all boats/motors to be registered (titles or pink slips with registration numbers and motor horsepower listed), evidence of a current Missouri Certificate of Number (Missouri watercraft card or renewal application) and a personal property tax receipt with the boats/motors listed if owned on January 1, of that year (Jackson County residents only).

Please contact the Permit Office at (816) 503-4800 for more information on out-of-state registrations.

Annual Permit Fees

Boat Permits - All County Lakes

County Residents	\$24.00
Non-Residents (Lake Jacomo Only)	\$42.00

Boat Permits - Blue Springs & Longview Lakes Only

County Residents & Non Residents	\$24.00
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Combo Permit - Personal Watercraft Only

County Residents & Non Residents	\$90.00
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Motor Permits - All County Lakes

First 10 Horsepower	\$1.80 Per HP
Each Additional Horsepower	\$0.70 Per HP

Recreational Opportunities

Bird Watching - Fishing - Hunting - Hiking -
Wildlife Viewing - Outdoor Photography

Rules and Regulations

Conservation areas are closed from 10 p.m. to 4 a.m. except for authorized camping, fishing, and hunting activities.

- No littering.
- No fireworks.
- No open fires.
- Motor vehicles are restricted to roadways and parking areas.
- No free-running pets. Dogs must be leashed or confined when not being used for hunting or training.
- Destroying, cutting or removing vegetation is prohibited. Nuts, berries, fruits, mushrooms and wild greens may be taken for personal consumption only.
- No digging or soil disturbance is allowed.
- Horseback riding is permitted only on roads open to vehicles.
- No camping permitted.
- No target shooting allowed.
- Swimming, scuba diving, water skiing, sailboarding, skateboarding, caving and rappelling are not allowed.

Fishing and Boating

Fishing and frogging is permitted under statewide regulations. The following special regulations also apply.

- Fish may be taken only by pole and line and not more than 3 poles may be used by any person.
- Daily limit is 6 black bass, 30 crappie, and 4 catfish in the aggregate (channel catfish, blue catfish, and flathead catfish). All other fish are under statewide limits, but may not exceed 20 in the aggregate.
- All black bass less than 15 inches in total length must be returned to the water unharmed immediately after being caught.
- Other posted restrictions may apply to specific ponds, lakes and stream segments.

- Boats, including sailboats, may be used on lakes and ponds designated as open to boats. Boats may not be left unattended overnight.
- Outboard motors in excess of 10 horsepower must be operated at a slow, no-wake speed at all times.

Hunting and Trapping

Area is open to hunting under statewide regulations, except as further restricted by the following regulations:

- Deer hunting is permitted under statewide seasons and limits except archery antlerless and firearms antlerless permits may not be used and the area is closed to firearms deer hunting during the urban and antlerless portions of the firearms deer season.
- Only bucks that have at least four antler points on one side of their rack may be taken during the archery and firearms deer hunting seasons (except the youth portions).
- Only portable tree stands are allowed and only between September 1 and January 31. Unattended stands must be plainly labeled on durable material with the full name and address, or Conservation Number, of the owner and be removed from the area before February 1. Use of nails, screw-in steps, and any material or method that would damage the tree is prohibited.
- Decoys and portable blinds are permitted but must be removed from the area daily. Blinds may be constructed on-site, but only from willows and non-woody vegetation.
- Trapping of furbearers is allowed only with a Special Use Permit.

For local information, contact:

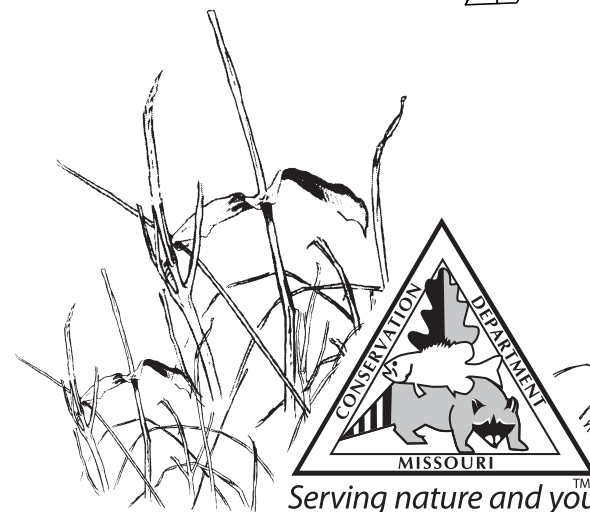
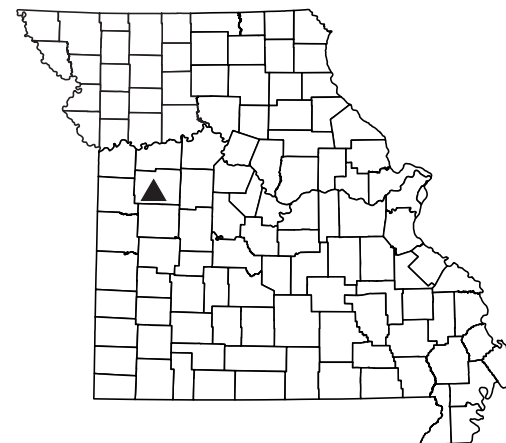
Department of Conservation
2000 S. Limit
Sedalia, MO 65301

5/2014

(Regulations are from the Wildlife Code of Missouri and selected statutes of the State of Missouri. Special area regulations are in Chapter 11 of the Wildlife Code. A free printed copy of the Wildlife Code, which lists most area regulations, is available from the Conservation Department. Chapter 11 in its entirety is available at www.sos.mo.gov/adrules/csr/current/3csr/3csr.asp.) Equal opportunity to participate in and benefit from programs of the Missouri Department of Conservation is available to all individuals without regard to their race, color, national origin, sex, age or disability. Questions should be directed to the Department of Conservation, P.O. Box 180, Jefferson City, MO 65102, (573) 751-4115 (voice) or 800-735-2966 (TTY), or to the U.S. Fish and Wildlife Service Division of Federal Assistance, 4401 N. Fairfax Drive, Mail Stop: MBSP-4020, Arlington, VA 22203.

Hazel Hill Lake

CONSERVATION AREA



MISSOURI DEPARTMENT OF CONSERVATION



STAFF REPORT

TO: Board of Aldermen
FROM: Eric Patterson, Asst. Director
DATE: May 28, 2015
SUBJECT: PUBLIC WORKS UPDATE JUNE 2015

Type of Item: *Report***WATER SYSTEMS**

- ☐ **Water Treatment Plant Upgrades**
 - Filter Replacement Awarded to David E Ross
 - Informally notified by SRF City will be recommended for full SRF funding. In the Draft "Intended Use Plan"
 - Notice to begin WTP design process issued to Burns and McDonnell
 - Environmental Clearance responses due June 15th
 - Fluoride - Received \$25,000 grant to install a pellet fluoride system. Engineering and construction is estimated at \$40,000. Will change order to David Ross contract. Must be installed by September 2015

SANITARY SEWERS

- ☐ **CCTV - GPS of Manholes** is almost complete & re-televising complete - RedZone has 4,000 ft remaining to televise in the City. Anticipate completion by mid-June
- ☐ Next steps will require developing a revised sewer map with manholes and line segments based on inspections. Bartlett and West is submitting a proposal as part of their master plan review.

STORMWATER

- ☐ **Morningview Storm Drainage Improvement Project:** Four easements acquisitions are required before the project can be bid.
- ☐ **Chateau** - One property owner no longer wants a swale through their yard. Result will be a grading change on property but a storm sewer pipe will still be necessary. **(property owner now states she doesn't want to be included on any part of the solution)**

GENERAL/TRANSPORTATION

- ☐ **Power and Water Building** - Trash pump and hose is now on hand. Will begin removing water by 2nd week in June. Reviewing EAE proposal to evaluate the areas for contamination after water is removed. Maintaining the water levels will continue to be an issue.
- ☐ **Mechanic Street-**
 - Bid date September 2015. One way traffic eastbound during construction
- ☐ **291 Partners in Progress-**
 - Completion by contract October 15, 2015
 - Starting on Commercial in 2 to 3 weeks
 - Allowing U-turns is under consideration

- Bid package for secondary access to KFC-Arby's and Landmark opening schedule for June 11th
- ☐ **North Independence Bridge -**
 - Waiting final paper work (one contractor has not been paid)
- ☐ **2014 Sidewalk Program:**
 - **DONE**
- ☐ **Fats Oil and Grease Program (FOG) :** Robert Edward and Steve Woodring are developing a FOG program to start identifying accountability for the growing grease buildup in the collection system and the WWTP.

A. Discussion Item (ID # 1893)

PUBLIC WORKS UPDATE JUNE 2015

Attachments:

80935 Meeting Minutes 052115 (PDF)

Memorandum



Date: May 21, 2015

To: Jerry Gibbs
Eric Patterson

From: Jeff Klein
Rachel Thompson
Ryan Scott

Subject: Harrisonville MO WTP Process Improvements and Water Master Plan (WMP)
Progress Meeting
BMcD PN 80935 and 82372

A progress meeting for the WTP project and WMP was conducted with the City on May 21, 2015 at BMcD from 2:00 p.m. The meeting was attended by the following City staff in addition to the BMcD staff listed above: Jerry Gibbs and Eric Patterson.

The following is a summary of that meeting. The meeting followed the attached agenda.

1. Water Master Plan:

1.1. Model calibration

- 1.1.1. Calibration was completed late last week. We adjusted the speed to the VFD to produce a flow within about 100 gpm of the flow recorded by the WTP meter.
- 1.1.2. Flows and pressures were matched between the field test data and modeled data. The model typically shows pressures 2 psi to 3 psi lower than the field data, which is conservative.

1.2. Demands and distribution:

- 1.2.1. We discussed the loss of major customers including the hospital in 2011 and PWSD No. 10 in 2006 as part of the historical demand/water use review. Demand data from 2012 to present will be used to evaluate demand distribution.
- 1.2.2. Current average day demand, post 2011, is 0.98 MGD (average of years 2012-2014) and maximum day demand is 1.69 MGD. These will be used as the starting point for demand distribution.
- 1.2.3. We discussed the existing water service boundaries, developable area east of I-49 in addition to the SW Development Area.
 - 1.2.3.1. Infill growth in the existing distribution system includes:
 - 1.2.3.1.1. Undeveloped areas bound by E. Waters Rd to the north, MO 291 to the west, Locust St to the south, and S. Jefferson Pkwy to the east.
 - 1.2.3.1.2. Undeveloped areas bordered by straight line projections from the intersection of N. Patton St and Ash St, north to Sandy Links Lane and projecting northeast to the intersection of Jones Ranch Pkwy and .E

Memorandum (cont'd)



May 21, 2015

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Mechanic St, then south along E. Mechanic St. to a point where Ash St. would project to intersect E Mechanic St.

1.2.3.1.3. Undeveloped areas bound by S. Prettyman Rd. to the north, Hwy 291 to the east, Rock Haven Rd. to the south, and the water service area limit to the west.

1.2.3.2. SW Development Area:

1.2.3.2.1. Area bound by E 267th St to the south (water service area limit), I-49/S. Brookhart Dr. to the east, and the areas south of the existing customers on the south side of Anaconda Rd (this would be the northern limit of the SW Development area).

1.2.4. Demand will first be allocated to developable areas east of I-49, designated as infill growth in part 1.2.3.1 above, on a five house per acre basis.

1.2.5. The remaining demand will be allocated to the SW Development Area.

1.2.6. The proposed Loves facility was scheduled to use about 18,000 gpm for the truck stop, restaurant, hotel, and repair shop.

1.3. Storage Analysis and High Service Pump Station:

1.3.1. The current equalization storage factor is 17 percent based on the diurnal analysis. This, combined with the maximum ISO fire demand of 3500 gpm for 3 hours, results in a minimum storage requirement for the City at a maximum day demand of 3.0 MGD of 1.05 MG.

1.3.2. Current storage totals 1.15 MG when tanks are full with 0.75 MG elevated plus 0.4 MG clearwell. Additional storage capacity could be provided in the new high service pump station, HSPS, wet well. This will be evaluated in the wet well design along with Hydraulic Institute standards for the pump station and wet well.

1.3.3. The result is the City has adequate storage capacity; however, the HSPS capacity may need to be increased to allow use of the clearwell storage to help emergency and peak demands in combination with the elevated tank. This will be evaluated with the model to set the design conditions (flow and head) for the HSPS. The HSPS must also supply about 400 gpm for the ozone injection skid. Increasing the pump sizing slightly will be far less expensive than building a new 400,000 to 500,000 gallon tank at a cost of about \$1 million.

1.4. Preliminary Hydraulic Results:

1.4.1. Preliminary model runs were made with 1.75 MGD demand to the existing system and 1.25 MGD in the SW Development area; these allocations will be updated to include the growth potential to the infill areas within the existing distribution system.

1.4.2. The existing I-49 crossings include a cased 16-inch and 10-inch and an uncased 8-inch.

1.4.3. All buildout demands, based on 1.75 MGD to the existing system and 1.25 MGD in the SW Development area (this represents a maximum day type demand

Attachment: 80935 Meeting Minutes 052115 (1893 : PUBLIC WORKS UPDATE JUNE 2015)

Memorandum (cont'd)



May 21, 2015

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condition, but fire flows still need to be evaluated system-wide, were met with all crossings in service.

- 1.4.4. A new 16-inch casing will provide redundancy and further improve distribution of flow to the SW Development Area. A location was determined where the railroad crosses beneath I-49; this minimizes the casing length as only the railroad will be cased. The crossing will require coordination with the railroad and MODOT.
- 1.4.5. Connecting the distribution system, west of I-49, from Cantrell Rd (near the Family Center Farm & Home) to the distribution system at N Clearwater Dr., also west of I-49 (near the Justice Center), was also discussed to remove the dead ends.
- 1.4.6. These improvements will be compared with the model to determine the path forward and the associated priority.
- 1.5. Modeling and Draft CIP:
 - 1.5.1. Modeling will evaluate the following to determine the required improvements for both current demands and build-out demands:
 - 1.5.1.1. Size the new HSPS to eliminate the need for additional storage.
 - 1.5.1.2. Existing system without any additional I-49 crossings and the new HSPS.
 - 1.5.1.3. Existing system without any additional I-49 crossings, new HSPS and loss of the 8-inch I-49 crossing.
 - 1.5.1.4. Existing system without any additional I-49 crossings, new HSPS, interconnect to Justice Center dead-end (from Cantrell Rd dead-end), and loss of the 8-inch I-49 crossing.
 - 1.5.1.5. Build-out system without any additional I-49 crossings and the new HSPS.
 - 1.5.1.6. Build-out system without any additional I-49 crossings, new HSPS and loss of the 8-inch I-49 crossing.
 - 1.5.1.7. Build-out system without any additional I-49 crossings, new HSPS, interconnect Justice Center dead-end, and loss of the 8-inch I-49 crossing.
 - 1.5.1.8. Build-out system with a new 16-inch I-49 crossings, new HSPS, interconnect Justice Center dead-end.
- 1.6. Report:
 - 1.6.1. Report will discuss MDNR storage guidelines and the basis for the recommended storage volume.
2. WTP Filter Rehab:
 - 2.1. Commission Approval:
 - 2.1.1. Project was approved on Monday.
 - 2.2. Agreement Signatures and Contractor Bonds:
 - 2.2.1. City will issue a Notice of Award to David Ross Construction and discuss agreement execution.
 - 2.3. IFC Document Development:

Attachment: 80935 Meeting Minutes 052115 (1893 : PUBLIC WORKS UPDATE JUNE 2015)

Memorandum (cont'd)



May 21, 2015

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- 2.3.1. BMcD will begin incorporation of the Addenda into the plans and specs for the IFC set.
- 2.4. Schedule Pre-Construction Meeting:
 - 2.4.1. Once the documents are signed, a pre-construction meeting can be conducted.
- 2.5. Change Orders:
 - 2.5.1. The City has a grant to add a new fluoride system at the WTP. This must be operational by September 2015.
 - 2.5.2. We discussed adding the fluoride unit and installation to David Ross Construction scope of work via change order.
 - 2.5.3. BMcD will provide the technical specification for the fluoride unit and softener requirements to the City. City will provide to David Ross Construction for development of a change order and install the system in the filter building basement; City will develop temporary installation details with the contractor.
- 3. WTP Process Improvements:
 - 3.1. Mini-Charrette Meeting minutes:
 - 3.1.1. City will provide comments and we will issue a final memo.
 - 3.2. Fishing River WWTP architectural/structural visit:
 - 3.2.1. City will provide dates they are available to visit the Fishing River WWTP to look at building architecture and the jib crane. We have discussed and cleared the visit with WWTP staff.
 - 3.3. Survey and Geotechnical subcontracts:
 - 3.3.1. We are preparing the survey scope of work for bid by surveyors (local and external to the City).
 - 3.3.2. Geotechnical scope of work will be provided after survey is complete and UG utilities are evaluated.
 - 3.4. Basis of Design (BOD):
 - 3.4.1. The BOD document was adjusted based on the May 12th meeting discussions.
 - 3.4.2. The document will continue to evolve as design progresses.
 - 3.4.3. New wet well for HSPS and backwash pumps should be deeper to allow the clearwell to be drained to the wet well and allow for submergence of the vertical turbine pumps.
 - 3.4.4. Show future location of the disinfection ozone contactor on the site plan so development of that space does not occur.
 - 3.5. O3/C/E Building:
 - 3.5.1. The revised layout of the O3/C/E building was reviewed with the City and the following items will be added and/or addressed:
 - 3.5.1.1. Building is about 40 feet by 55 feet plus sidewalk area.

Attachment: 80935 Meeting Minutes 052115 (1893 : PUBLIC WORKS UPDATE JUNE 2015)

Memorandum (cont'd)



May 21, 2015

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- 3.5.1.2. Building will be about 10' off the Filter Building to allow installation and future removal of electrical equipment. Discuss swing direction of doors with the architects.
- 3.5.1.3. Remove window into electrical room from ozone room.
- 3.5.1.4. Add casing pipes for the following future utilities: electrical cable to electrical room, potential LOX supply, and ozone gas to future injection skid at ozone contactor for disinfection.
- 3.5.1.5. Relocation of existing lines (as they will be under the O3/C/E building) includes a plastic treated waterline to the existing chemical building (no tracer wire) and the lagoon decant line.
- 3.5.1.6. Raw waterline in the ozone room includes the isolation valves, meter, ozone pipeline flash reactor, static mixer and injection quill for alum.
- 3.5.1.7. The area designated for mechanical equipment in the ozone room for plumbing/cross-connection piping and tepid water system loop for emergency shower and eye wash unit.
- 3.5.1.8. Add jib crane location outside building for unloading of chemical totes and drums.
- 3.6. Schedule
 - 3.6.1. No change to the May 12th schedule has occurred.
- 4. SRF
 - 4.1. City issued the environmental letter to the seven organizations and has received two without comment. These must be provided to MDNR SRF for approval before a public meeting can be conducted.
- 5. Next Meeting:
 - 5.1. We will continue to meet monthly and at major milestones.
- 6. Action Items:
 - 6.1. BMcD will provide a Word file for a Notice of Award form to the city for completion and execution.
 - 6.2. BMcD will begin incorporation of the Addenda into the plans and specs for the IFC Filter Rehabilitation set.
 - 6.3. BMcD will provide the technical specification for the fluoride unit and softener requirement to the City.
 - 6.4. City will provide dates they are available to visit the Fishing River WWTP to look at building architecture and the jib crane. We have discussed and cleared the visit with WWTP staff.

Enclosure Attachment

Attachment: 80935 Meeting Minutes 052115 (1893 : PUBLIC WORKS UPDATE JUNE 2015)

Memorandum *(cont'd)*



May 21, 2015

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cc: Files
Adam Holmes
Ryan Lang
Valerie Schroer
Tyler Shoemaker
Shawn Wiedel

Attachment: 80935 Meeting Minutes 052115 (1893 : PUBLIC WORKS UPDATE JUNE 2015)



**Water Master Plan and Water Treatment Plant
Progress Meeting
Harrisonville, Missouri
May 21, 2015
Agenda**

1. Water Master Plan:
 - 1.1. Model calibration
 - 1.2. SW Development Area demand distribution
 - 1.3. HSPS operation/Energy use
 - 1.4. Additional storage – max day demand driver
 - 1.5. Preliminary hydraulic results
 - 1.6. Draft CIP
 - 1.7. Report
2. WTP Filter Rehab:
 - 2.1. Commission approval
 - 2.2. Agreement signatures and Contractor bonds
 - 2.3. IFC Document Development
 - 2.4. Schedule Pre-Construction Meeting
3. WTP Process Improvements:
 - 3.1. Meeting minutes – comments/finalize
 - 3.2. Fishing River WWTP architectural/structural visit
 - 3.3. Survey and Geotechnical subcontracts
 - 3.4. Basis of Design
 - 3.5. O3/C/E Building Status
 - 3.6. Schedule
4. SRF
5. Next Meeting



TO: Board of Aldermen
FROM: Jerry Gibbs, Director
DATE: May 28, 2015
SUBJECT: AIRPORT REPORT

Type of Item: *Report*

LAWRENCE SMITH MEMORIAL AIRPORT REPORT

by

James Green

May, 2015

Hangar and Tie Down Space:

- All hangars are full, 17 people on the waiting list
- 6 Outside tie down spots available

Fuel:

- Potential jet fuel sales - approx. 150 gallons
- 100LL - our current price is \$4.50 per gallon
- Fuel prices in our service area:

Lee's Summit	\$4.73 per gal.
Butler	\$4.80 per gal.
Warrensburg	\$4.40 per gal.
Johnson County	\$4.75 per gal.
Ottawa	\$4.84 per gal.

AVGAS Sales: (April 30th to May 28th)

Price \$4.50 per gallon
 Gallons Sold 525 gallons
 Revenue \$2,362.64
 Profit \$498.75

Airport Master Plan Update & GIS Project:

This project is scheduled to be completed in the next couple of months; once it is complete the consultants will present their findings to the Public Works Committee.

Pavement Maintenance Design Project:

This project is progressing as scheduled and should be ready for bid in July.

Lobby Wind Damage:

On the night of the 16th straight line winds near 52 mph were recorded by the AWOS at the airport. The hangar door was in the process of being shut when the approaching storm's gust front arrived which sent winds whipping through the entire building. As a result sections of the drop ceiling in the lobby area were damaged and collapsed. No one was hurt and nothing else was damaged other than some minor adjustments needed for the main hangar door.

The repairs costs were less than the insurance deductible but the damage was reported to our insurance company. I spoke with Life Flight's base manager and requested that their crews take the proper steps to ensure the main hangar door is closed prior to any storms arriving in the future.

A. Discussion Item (ID # 1888)**AIRPORT REPORT**

Attachments:

Jet Fuel sales - May 2015 (PDF)

POTENTIAL JET FUEL SALES

(in gallons)

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
													<u>TOTAL</u>
2003	?	?	1,700	2,300	2,300	2,500	2,000	2,500	1,800	1,500	1,200	1,400	19,200
2004	1,800	2,500	3,500	2,500	1,500	1,500	3,000	2,800	2,000	2,000	3,200	3,400	29,700
2005	2,100	1,400	1,200	2,200	2,400	2,000	1,500	1,000	2,000	1,500	1,000	1,300	19,600
2006	1,000	1,500	1,800	1,800	1,000	1,300	1,000	1,200	1,500	1,000	1,100	800	15,000
2007	500	1,000	1,000	1,200	1,000	1,200	1,000	500	600	500	300	200	9,000
2008	200	200	200	100	100	200	300	400	200	250	150	100	2,400
2009	150	100	100	150	200	250	150	250	150	150	100	100	1,850
2010	250	350	250	150	150	100	100	150	100	0	200	250	2,050
2011	350	300	250	200	250	200	250	350	200	200	250	200	3,000
2012	150	250	150	200	400	300	200	200	300	200	350	100	2,800
2013	350	250	150	200	250	300	450	250	200	350	550	350	3,650
2014	1,800	500	200	200	300	350	300	200	150	200	250	350	4,800
2015	250	200	350	250	150								1,200