

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

**PERMIT APPLICATION FOR WATER SUPPLY SYSTEMS**  
 (CONSTRUCTION - ALTERATION - ADDITION OR IMPROVEMENT) AS DESCRIBED HEREIN  
 Required under the Authority of 1976 PA 399, as amended

This application becomes an Act 399 Permit only when signed and issued by authorized Michigan Department of Environmental Quality (DEQ) Staff. See instructions below for completion of this application.

<p><b>1. Municipality or Organization, Address and WSSN</b>                  that will own or control the water facilities to be constructed. This permit is to be issued to:                  Karegnondi Water Authority                  4610 Beecher Road                  Flint, MI 48532   <b>WSSN:</b> 03563</p>	Permit Stamp Area (DEQ use only)  <b>MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY</b>  PERMIT NO. <b>W 141055 JUN 30 2014</b>  EXAMINED AND APPROVED FOR COMPLIANCE WITH ACT 399, P.A. 1976  <i>MFP</i>	
<p><b>2. Owner's Contact Person</b> (provide name for questions):                   Contact: John F. O'Brien, P.E.                  Title: Deputy Chief Executive Officer                  Phone: (810)-732-7870</p>		
<p><b>3. Project Name</b> (Provide phase number if project is segmented):                   Lake Huron Water Initiative 60" Transmission Main, Contract S-4006</p>	<p><b>4. Project Location</b>                  (City, Village, Township):                  Marathon, Oregon, Mayfield, &amp;                  Deerfield Townships</p>	<p><b>5. County</b> (location of project):                  Lapeer</p>

ISSUED UNDER THE AUTHORITY OF THE DIRECTOR OF THE DEPARTMENT OF ENVIRONMENT QUALITY

cc:

Issued by: *Michael Prybyl*  
 Reviewed by: *Michael Prybyl*

If this box is marked see attached special conditions.

**Instructions:** Complete items 1 through 5 above and 6 through 21 on the following pages of this application. Print or type all information except for signatures. Mail completed application, plans and specifications, and any attachments to the DEQ District Office having jurisdiction in the area of the proposed construction.

**Please Note:**

- a. This **PERMIT** only authorizes the construction, alteration, addition or improvement of the water system described herein and is issued solely under the authority of 1976 PA 399, as amended.
- b. The issuance of this **PERMIT** does not authorize violation of any federal, state or local laws or regulations, nor does it obviate the necessity of obtaining such permits, including any other DEQ permits, or approvals from other units of government as may be required by law.
- c. This **PERMIT** expires two (2) years after the date of issuance in accordance with R 325.11306, 1976 PA 399, administrative rules, unless construction has been initiated prior to expiration.
- d. Noncompliance with the conditions of this permit and the requirements of the Act constitutes a violation of the Act.
- e. Applicant must give notice to public utilities in accordance with 1974 PA 53, (MISS DIG), being Section 460.701 to 460.718 of the Michigan Compiled Laws, and comply with each of the requirements of that Act.
- f. All earth changing activities must be conducted in accordance with the requirements of the Soil Erosion and Sedimentation Control Act, Part 91, 1994 PA 451, as amended.
- g. All construction activity impacting wetlands must be conducted in accordance with the Wetland Protection Act, Part 303, 1994 PA 451, as amended.
- h. Intentionally providing false information in this application constitutes fraud which is punishable by fine and/or imprisonment.
- i. Where applicable for water withdrawals, the issuance of this permit indicates compliance with the requirements of Part 327 of Act 451, Great Lakes Preservation Act.

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Permit Application for Water Systems (Continued)

6. **Facilities Description** – In the space below provide a detailed description of the proposed project. Applications without adequate facilities descriptions will be returned. SEE EXAMPLES BELOW. Use additional sheets if needed.

Beginning with 20,868 of 60" water in Kings Mill Road from Jefferson Road to Scholtz Road

2900 feet of 60" water main in Scholtz Road from Kingsmill Road to Norway Lake Road

25,700 feet of 60" water main in Norway Lake Road from Scholtz Road to Flint River Road

5,150 feet of 60" water main in an 40 foot wide permanent easement from Fint River Road & Norway Lake Road intersection over to Klam & Peters Road.

11,200 feet of 60" water main in Klam Road from Peters/Easement to Stanley Road

2,701 feet of 60" water main in Stanley Road from Klam Road to the proposed water treatment plant.

For a total of 68,519 feet of 60" spiral welded steel pipe.

**EXAMPLES – EXAMPLES – EXAMPLES – EXAMPLES – EXAMPLES – EXAMPLES**

Water Mains	500 feet of 8-inch water main in First Street from Main Street north to State Street. <b>OR</b> 250 feet of 12-inch water main in Clark Road from an existing 8-inch main in Third Avenue north to a hydrant.
Booster Stations	A booster station located at the southwest corner of Third Avenue and Main Street, and equipped with two, 15 Hp pumps each rated 150 gpm @ 200 feet TDH. Station includes backup power and all other equipment as required for proper operation.
Elevated Storage Tank	A 300,000 gallon elevated storage tank located in City Park. The proposed tank shall be spherical, all welded construction and supported on a single pedestal. The tank shall be 150 feet in height, 40 feet in diameter with a normal operating range of 130 – 145 feet. The interior coating system shall be ANSI/NSF Standard 61 approved or equivalent. The tank will be equipped with a cathodic protection system, and includes a tank level control system with telemetry.
Chemical Feed	A positive displacement chemical feed pump, rated at 24 gpd @ 110 psi to apply a chlorine solution for Well No. 1. Chlorine is 12.5% NaOCL, ANSI/NSF Standard 60 approved and will be applied at a rate of 1.0 mg/l of actual chlorine.
Water Supply Well	Well No. 3, a 200 foot deep well with 170 feet of 8-inch casing and 30 feet of 8-inch, 10 slot screen. The well will be equipped with a 20 Hp submersible pump and motor rated 200 gpm @ 225 feet TDH, set at 160 feet below land surface.
Treatment Facilities	A 5 million gpd water treatment plant located at the north end of Second Avenue. The facility will include 6 low service pumps, 2 rapid mix basins, 4 flocculation/sedimentation basins, 8 dual media filters, 3 million gallon water storage reservoir and 6 high service pumps. Also included are chemical feed pumps and related appurtenances for the addition of alum, fluoride, phosphate and chlorine.

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<b>General Project Information – Complete all boxes below.</b>	
<p>7. Design engineer's name, engineering firm, address, phone number, and email address:</p> <p>Doug Skylis, P.E. Rowe Professional Services Company 540 S. Saginaw Street Flint, Michigan 48502</p>	<p>8. Indicate who will provide project construction inspection:</p> <p><input type="checkbox"/> Organization listed in Box 1. <input type="checkbox"/> Engineering firm listed in Box 7. <input checked="" type="checkbox"/> Other - name, address, and phone number listed below. To Be Determined</p>
<p>9. Is a basis of design attached? <input checked="" type="checkbox"/> YES      <input type="checkbox"/> NO</p> <p>If no, briefly explain why a basis of design is not needed. Project Design Report Attached</p>	
<p>10. Are sealed and signed engineering plans attached? <input checked="" type="checkbox"/> YES      <input type="checkbox"/> NO</p> <p>If no, briefly explain why engineering plans are not needed.</p>	
<p>11. Are sealed and signed construction specifications attached? <input checked="" type="checkbox"/> YES      <input type="checkbox"/> NO</p> <p>If specifications are not attached, they need to be on file at DEQ.</p>	
<p>12. Were Recommended Standards for Water Works, Suggested Practice for Water Works, AWWA guidelines, and the requirements of Act 399 and its administrative rules followed? <input checked="" type="checkbox"/> YES      <input type="checkbox"/> NO</p> <p>If no, explain which deviations were made and why.</p>	
<p>13. Are all coatings, chemical additives and construction materials ANSI/NSF or other adequate 3<sup>rd</sup> party approved? <input checked="" type="checkbox"/> YES      <input type="checkbox"/> NO</p> <p>If no, describe what coatings, additives or materials did not meet the applicable standard and why.</p>	
<p>14. Are all water system facilities being installed in the public right-of-way or a dedicated utility easement? (For projects not located in the public right-of-way, utility easements must be shown on the plans.) <input checked="" type="checkbox"/> YES      <input type="checkbox"/> NO</p> <p>If no, explain how access will be obtained.</p>	
<p>15. Is the project construction activity within a wetland (as defined by Section 324.30301(d)) of Part 303, 1994 PA 451? <input checked="" type="checkbox"/> YES      <input type="checkbox"/> NO</p> <p>If yes, a wetland permit must be obtained.</p>	
<p>16. Is the project construction activity within a 100-year floodplain (as defined by R 323.1311(e)) of Part 31, 1994 PA 451, administrative rules? <input checked="" type="checkbox"/> YES      <input type="checkbox"/> NO</p> <p>If yes, a flood plain permit must be obtained.</p>	
<p>17. Is the project construction activity within 500 feet of a lake, reservoir, or stream? <input checked="" type="checkbox"/> YES      <input type="checkbox"/> NO</p> <p>If yes, a Soil and Erosion Control Permit must be obtained or indicate if the owner listed in box 2 of this application is an Authorized Public Agency (Section 10 of Part 91, 1994 PA 451) <input type="checkbox"/> Owner is APA.</p>	

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18. Will the proposed construction activity be part of a project involving the disturbance of five (5) or more acres of land?  
 YES       NO  
If yes, is this activity regulated by the National Pollutant Discharge Elimination System storm water regulations?  
 YES: NPDES Authorization to discharge storm water from construction activities must be obtained.  
 NO: Describe why activity is not regulated:  
Please call 517-241-8993 with questions regarding the applicability of the storm water regulations.

19. Is the project in or adjacent to a site of suspected or known soil or groundwater contamination?  
 YES       NO      See Attached Specifications  
If yes, attach a copy of a plan acceptable to the DEQ for handling contaminated soils and/or groundwater disturbed during construction. Contact the local DEQ district office for listings of Michigan sites of environmental contamination.

20. IF YOU ARE A CUSTOMER/WHOLESALE/BULK PURCHASER, COMPLETE THE FOLLOWING

1) Name and WSSN of source water supply system (seller) \_\_\_\_\_

2) Does the water service contract require water producer/seller to review and approve customer/wholesale/bulk purchaser water system construction plans?  
 YES       NO  
If yes to #2, the producer/seller approval letter must be attached when submitted to DEQ.

21. **Owner's Certification** The owner of the proposed facilities or the owner's authorized representative shall complete the owner's certification. It is anticipated that the owner will either be a governmental agency (city, village, township, county, etc.) or a private owner (individual, company, association, etc.) of a Type I public water supply.

OWNER'S CERTIFICATION

I, John F. O'Brien (name), acting as the Deputy CEO (title/position) for  
(print) (print)

Karegnondi Water Authority (entity owning proposed facilities) certify that this project has  
(print)

been reviewed and approved as detailed by the Plans and Specifications submitted under this application, and is in compliance with the requirements of 1976 PA 399, as amended, and its administrative rules.

[Signature]      6/14/14      810-732-7870  
Signature\*      Date      Phone


\*Original signature only, no photocopies will be accepted.

<b>Project Name:</b> KWA Water Supply System	
<b>Contract No.:</b> S.4006	<b>Date:</b> June 16, 2014
<b>To,</b> Mike Prysby, PE (MDEQ Lansing)	

ACTION		
ISSUED FOR:	TRANSMITTED FOR STATUS & ACTION NOTED:	POSTED TO:
<input type="checkbox"/> Progress <input type="checkbox"/> Information <input type="checkbox"/> Coordination <input type="checkbox"/> 30% Review <input type="checkbox"/> 60% Review <input type="checkbox"/> 90% Review <input checked="" type="checkbox"/> 100% Final <input type="checkbox"/> Bid <input type="checkbox"/> Other _____	<input type="checkbox"/> Review as Noted <input type="checkbox"/> Released for Fabrication <input type="checkbox"/> Released for Field Construction <input type="checkbox"/> See Attached Sheet <input type="checkbox"/> Other _____	<input type="checkbox"/> LHWI Project Extranet <input type="checkbox"/> Owner <input type="checkbox"/> PM Project File <input type="checkbox"/> Other _____
<b>RESUBMITTAL REQUIRED:</b> <input type="checkbox"/> Yes, Certified <input type="checkbox"/> No <input type="checkbox"/> Yes, For Review		

Item No.	Item	File Name and Location	Revision
3	S.4006 100% Full Size Plans		
3	S.4006 100% Specifications		
3	S.4006 100% Project Design Report		
1	Letter from Matthew T. Raysin, PE, dated June 13, 2014 transmitting attached Act 399 Permit Application		

Distribution List as Follows:	E-Mail	Print
Matthew T. Raysin, PE - (GCDC-WWS)	<a href="mailto:mraysin@gcdcwws.com">mraysin@gcdcwws.com</a>	
Donald Camp, PE (GCDC-WWS)	<a href="mailto:dcamp@gcdcwws.com">dcamp@gcdcwws.com</a>	
John C. O'Malia, PE - (O'Malia Consulting)	<a href="mailto:jcomalia@gmail.com">jcomalia@gmail.com</a>	
Erich Smith, PE – Wade Trim (PM Team)	<a href="mailto:esmith@wadetrim.com">esmith@wadetrim.com</a>	

<b>Name:</b> Larry A. Osborn, PE	<b>Signature:</b> 
<b>Phone:</b> 810.235.2555	<b>Email:</b> losborn@wadetrim.com



GENESEE COUNTY DRAIN COMMISSIONER'S OFFICE

- DIVISION OF -

WATER & WASTE SERVICES

G-4610 BEECHER ROAD - FLINT, MICHIGAN 48532-2617

PHONE (810) 732-7870 - FAX (810) 732-9773

JEFFREY WRIGHT  
COMMISSIONER

June 13, 2014

Mr. Mike Prysby  
MDEQ Water Division  
525 West Allegan Street  
4<sup>th</sup> Floor  
Lansing, Michigan 48933-1502

RE: Karegnondi Water Authority  
S.4006 - 100% Submittal

Dear Mr. Prysby:

Enclosed please find an Act 399 Permit Applications, three (3) sets of construction plans, specifications, and a PDR for your review.

Thank you for your assistance. Should you have any questions or concerns, please do not hesitate to contact me directly.

Sincerely,

Matthew T. Raysin, P.E.  
Assistant Director of Engineering  
Division of Water & Waste Services

MTR/JMW

Enclosures

cc: John F. O'Brien, P.E., BCCE, Director  
Jon Bloemker, P.E., District Supervisor  
AECOM Technical Services of Michigan, Inc.  
Wade Trim, Inc.  
Rowe Professional Services  
Don Camp, P.E.