

Oregon Water Resources Department

Municipal Reclaimed Water Registration Form

A water use permit may not be required if the water being used is reclaimed water as defined in ORS 537.131 and the reclaimed water use is both authorized by the Oregon Department of Environmental Quality (DEQ) and registered with Oregon Water Resources Department (WRD)(ORS 537.132). Currently there is no fee for registering.

Complete and send this Registration Form to the DEQ permit writer managing the wastewater treatment facility discharge permit. DEQ will review and sign this Registration Form prior to sending it on to WRD in Salem. A response letter will be sent by WRD to all parties within 60 days of receipt.

Instructions are available to guide you. If you need assistance, please call 503-986-0900 and ask for the "Water Reuse Coordinator" or contact the local watermaster in your county. Insert "N/A" if the requested information does not apply to your situation.

1. Name of "Registrant". Who will use the reclaimed water?

Name of Reclaimed Water User: Metropolitan Wastewater Management Commission(MWMC)

County where reclaimed water use will occur: Lane

Mail Address: 225 Fifth St. Springfield OR 97477
Street/P.O. Box City State Zip

Daytime Telephone: (541) 726-3694 E-mail: _____

2. Does the reclaimed water user own the land where the use will occur?

YES NO If no, provide the landowner's name and contact information.

Landowner Name: _____

Mail Address: _____
Street/P.O. Box City State Zip

Daytime Telephone: _____ E-mail: _____

3. Are there existing water rights on the same land where the use will occur?

YES (provide information below) NO

Application No. 14865 Permit No. G-13718

Certificate No. 94261 Decree vol. & pg. max. rate 0.84 cfs

Will the reclaimed water be used instead of existing water rights OR used to supplement the continued use of the existing water rights? The water is used to supplement the water right at the Biosolids Management Facility(BMF) - See Attachment A, Question 3 for more information.

4. Has DEQ issued a Municipal Wastewater Treatment Facility Discharge Permit authorizing the use of reclaimed water? (If yes, provide permit number)

YES NPDES Permit No. 102486 or WPCF Permit No. _____

Permit Effective Date: 05/01/02 Permit Expiration Date: 12/31/06- permit administratively extended

DEQ Region: (Check one) Northwest Region Eastern Region Western Region See attachment-

NO Permit application was submitted to DEQ, but not yet issued. copy of letter from DEQ.

NO Permit application has not been submitted to DEQ.

5. Who is treating and supplying the reclaimed water to the user?

Name of Supplier: MWMC Telephone No. (541) 726-3694

Treatment Facility Name: Eugene/Springfield* Telephone No. (541) 682-8600

Mail Address: 410 River Ave Eugene OR 97404
Street/P.O. Box City State Zip

*Water Pollution Control Facility (WPCF) - See Attachment A, question 5 for more information.

6. Which water provider supplies potable municipal water to the city/community that produces the sewage entering the treatment facility?

Municipal Water Provider: Eugene Water and Electric Board Telephone No. (541) 685-7000

Source(s) of Municipal Water: McKenzie River

(stream name, groundwater, and/or reservoir name)

See Attachment A, Question 6 for more information.

7. Will the use of reclaimed water occur inside or outside the water service boundaries of the potable municipal water provider identified above in Question 6?

INSIDE OUTSIDE Both -See Appendix A, Question 7 for more information

8. What is the length in years of the agreement/contract between the reclaimed water user and the reclaimed water supplier? N/A

Describe any conditions in the agreement that limit use of the reclaimed water.

9. Please describe the transmission system that delivers reclaimed water from the wastewater treatment facility to the place of reclaimed water use.

There is a designated reclaimed water pump at the WPCF used to pump water to the BMF. Attachment A, Question 9 for additional information.

(Include type of construction of diversion works/pump capacity, length and dimensions of supply ditches/ pipelines)

10. What is the Intended Use(s) of Reclaimed Water?

Irrigation of Poplar Tree Farm and use in the De-watering facility at BMF - See Attachment A
(irrigation, aquifer recharge, wetlands, industrial, cooling, aquifer storage & recovery, etc.)

Irrigation Total Acres: ~392 What type of crop? Poplar Trees
(hay, pasture, golf course, wood fiber, etc.)

What is the irrigation application system? Hose reel irrigators
(flood, center pivot, wheel line, drip, micro-sprinklers)

How much Reclaimed Water will be used? 1950 gpm
(cubic feet per second, OR gallons per minute)

Date use began or will begin: April 2004 Period of use (month/day): from Mar 1 to Oct 31
Initially MWMC began using Reclaimed Water at BMF and the Biocycle (Poplar) Farm in 2004.

11. What are the water user's motivations to use reclaimed water?

- My existing water rights are "junior" and not always reliable.
- Another water source is available, but reclaimed water is less expensive.
- Reclaimed water is the only source available and enables the use listed in Question 10.
- Reclaimed water allows a WRD transfer of existing water rights to a different location.
- Reclaimed water use reduces demand on the local municipal water supply.
- To assist the treatment facility in meeting DEQ regulatory permit requirements.
- To recharge the aquifer or store water in the aquifer for future recovery.
- Other (describe): To reduce demand on groundwater supply and to reduce discharge of treated wastewater (thermal load) into the Willamette River.

12. Describe the historic reclaimed water disposal method.

A) Into which stream was the reclaimed water discharged? Willamette River

B) Has the reclaimed water been discharged into the stream for 5 or more years?

YES NO

C) Where did the treated wastewater historically enter the stream?

River Mile 178, same location as the outfall for the facility's treated effluent.
(Township, Range and Section, or distance from landmark, or river mile, or Lat/Long)

D) Does the amount (rate in gpm or cfs) of reclaimed water proposed for use under this registration represent more than 50% of the total average annual flow of the stream?

YES NO UNKNOWN

Source of information used to answer this? USGS National Water Information System

13. Is the required map attached showing the reclaimed water transmission system and place of use? YES NO (If No, please prepare and attach map).

The Registration Form is not complete without an adequate map.
See map requirement explanation on page 4.

14. MAP REQUIREMENTS:

This registration must be accompanied by a map, or maps, to show the location of the wastewater treatment facility, location of reclaimed water transmission system (pipelines, canals, etc.) and the place of reclaimed water use. Features of the map(s) should include the following:

- A north arrow.
- Drawn to scale at not less than 4" = 1 mile, with the scale identified.
- Township, Range, Section, Quarter-Quarters, and tax lot number(s).
- Place of use shown by Quarter-Quarter section with shading or diagonal lines.
- Acres, if land application, per Quarter-Quarter section (approximate if not certain).
- Location of main canals or pipelines to and within the reclaimed water use area.
- Streams and roads identified if they cross through the map.
- Other obvious features that would help someone in the field locate the place of use.
- A legend.

**A map showing the wastewater treatment facility, transmission system, and place of use at a scale of 4" = >1 mile is fine only if a second map is provided showing the place of use at not less than 4" = 1 mile.*

15. ADDITIONAL COMMENTS: Provide additional information here or attach additional pages.
See Attachment A and attached drawings and maps.

16. Signatures of Registrant and Reclaimed Water Supplier:

I/We certify that the information provided in this Registration Form is an accurate representation of the proposed reclaimed water use to the best of my knowledge:

Registrant Printed Name: DAVID BREITENSTEIN Title: WASTEWATER DIVISION DIRECTOR

Registrant Signature: *David Breitenstein* Date: 3/10/2020

Supplier Printed Name: SAME AS ABOVE Title: _____

Supplier Signature: _____ Date: _____

NOTE: Once completed and signed, keep a copy and send this form to the DEQ permit writer responsible for the wastewater treatment facility permit. DEQ will sign and forward the form to WRD in Salem. A response letter will be sent by WRD to all parties within 60 days.

This section is to be completed by DEQ

RECEIVED

OCT 29 2019

OWRD

17. Signature of DEQ Water Quality Manager:

Date registration form received at DEQ: 07/20/2016

Pursuant to ORS 537.132 DEQ has:

- a) **Authorized the use of reclaimed water (referred to by DEQ regulations as "recycled water") as evidenced by the NPDES or WPCF permit issued and described below.**

Permit Number: 102486 DEQ File Number: 55999

Printed DEQ Permit Writer's Name: _____

Mail Address: _____
Street/P.O. Box City State Zip

Telephone: _____ E-mail: _____

- b) **Consulted with State Department of Fish and Wildlife and determined this use of reclaimed water shall not have a significant negative impact on fish or wildlife.**

ODFW contact name: EUSE KELLEY FISH BIOLOGIST

ODFW contact phone number: (541) 757-4186 elise.x.kelley@state.or.us

- c) **Determined the use of reclaimed water is intended to improve the water quality of the receiving stream.**

The reclaimed water is (e.g. too warm for salmonids): _____

I certify the provisions of ORS 537.132(1)(a)(b) and (c) for this application are satisfied.

Ranei L. Nomura
DEQ Water Quality Manager Signature

Date 10/23/2019

Ranei L. Nomura
DEQ Water Quality Manager's printed name

Once signed by DEQ, this completed form is to be sent to:

Oregon Water Resources Department
C/O Water Reuse Coordinator
725 Summer St. NE, Suite A
Salem, OR 97301-1266

ATTACHMENT A

Question 3. Cont.

The reclaimed water is used to irrigate the Poplar Trees and to supply water to the de-watering facility at the BMF. The well water from the Water Right is also used to supply water to the de-watering facility. At the beginning of the biosolids processing season both reclaimed water and well water are used in the process. Once staff begins watering the Poplar trees, the reclaimed water is used.

Question 5. Cont.

The WPCF, located at 410 River Ave., Eugene OR, treats and supplies reclaimed water to the Biocycle Management Facility/Biocycle (Poplar) Farm located at 29689 Awbrey Lane, Eugene OR. The property is owned and managed by MWMC. Reclaimed water is used within MWMC's fence line.

See Attachment -**Figure 1 - MWMC WPCF**

Question 6. Cont.

The other water provider for the community is Springfield Utility Board (SUB) which obtains its water primarily from wells. The wells are supplemented by water from the Middle Fork of the Willamette River.

Question 7. Cont.

The BMF is inside the water service boundary of Eugene Water and Electric Board but outside SUB. Most of the Poplar Farm, adjacent to the BMF, is outside EWEB's and SUB's service area.

Additional Information Questions 9. And 10. Cont.

Transmission system from WPCF to BMF cont.

The reclaimed water is conveyed to the BMF located NW of the WPCF approximately 5.5 miles. The reclaimed water pump at the WPCF has a maximum design flow of 2,800 gpm. However, due to limited pressure ratings for part of the reclaim pipeline to BMF, the maximum flow conveyed to the BMF is approximately 1950 gpm to limit pressure in pipeline below 100 psi. The pipeline from the WPCF to Northwest Expressway is 16-inch high-density polyethylene (HDPE). From NW Expressway to Awbrey Lane, the line reduces to 12- inch HDPE and ductile iron pipeline (DIP). From near Awbrey Lane to the BMF, the pipeline consists of 16-inch HDPE.

There is a flow meter at the WPCF on the Reclaim line to the BMF that measures the total amount of reclaim water pumped to the BMF/Biocycle Farm. There are also flow meters on each of the three irrigation pumps at the recycled water pump station located at the BMF that measure the reclaimed water that is applied directly to the adjacent Poplar Farm.

See Attachment – **Figure 2 - MWMC Infrastructure** for route of Reclaim Water (W2) Pipeline from WPCF to the BMF and Biocycle Farm and **Figure 3 – MWMC Reclaimed Water Conveyance and Biocycle Farm Irrigation Loop .**

Conveyance of Reclaimed Water at BMF to Dewatering process or Biocycle Farm

At the BMF, the reclaimed water can be directed to a booster pump for use as process water for the dewatering facility or directed to the Reuse Pump station located at the BMF and applied to the adjacent Biocycle (Poplar) Farm through a 16-inch HDPE, 4.5-mile irrigation continuous loop supply pipeline.

Up to 400 gpm of reclaimed water can be used on the belt filter presses as wash water. The period of use is typically from March through September. At the beginning of the process season, typically reclaimed water and well water (water right) are used in the dewatering process. By late May or early June each season, reclaimed water is designated for the Poplar Farm and the dewatering process uses primarily well water and city water.

For irrigation of the Poplar farm, the pipeline includes 4-inch risers with valves spaced throughout the farm in the three management units. There is approximately one riser for every four tree rows in each unit. Up to 10 hose reels may be connected at one time to any of these risers and operated simultaneously at a constant and equal flow rate of 250 gpm per hose reel, at 40 psi at the irrigation nozzles. Flow rate is monitored through magnetic flow meters. The hose reel irrigation carts are extended up to 140 feet with farm tractors and reeled in at controlled speeds to supply the desired irrigation application rates.

See Attachments: **Figure 4 - MWMC Reuse Site Layout Map, Figure 5 - MWMC Biocycle Farm Reuse Water Irrigation Application Areas Map**

MWMC has a DEQ approved Reclaimed Water Use Plan for the Metropolitan Wastewater Management Commission that is available upon request.



Oregon

Theodore R. Kulongoski, Governor

Department of Environmental Quality
Western Region - Salem Office
750 Front St. NE, Ste. 120
Salem, OR 97301-1039
(503) 378-8240
(503) 378-3684 TTY

July 21, 2006

Susan L. Smith
Metropolitan Wastewater
Management Commission
225 5th St
Springfield, OR 97477-4671

RECEIVED

JUL 25 2006

ESD/MWMC

RE: NPDES Permit Renewal Application No. 978317
File Number: 55999
Facility: MWMC - Eugene/Springfield STP, 410 River Ave., Eugene
Lane County

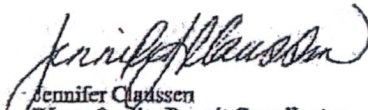
Dear Ms. Smith:

Your application for renewal of your facility's National Pollutant Discharge Elimination System (NPDES) was received on 5/12/2006, and has been assigned application number 978317. The Department will contact you if additional information is required. Please include the above referenced file number in the subject of all correspondence with the Department.

In accordance with the Department's procedural and enforcement rules for issuance of permits (Oregon Administrative Rules, Divisions 12 and 45), you have completed and submitted the renewal application along with the appropriate fees before your current permit expired. Meeting this submittal date has automatically extended and will keep your current permit in effect until a new permit is issued.

Mark Hamlin has been assigned to process your application. Please contact Mark Hamlin in the Salem Office at (503) 378-5319, if you have any questions.

Sincerely,


Jennifer Clausen
Water Quality Permit Coordinator
Western Region - Salem Office

cc: Mark Hamlin, DEQ - Salem Office

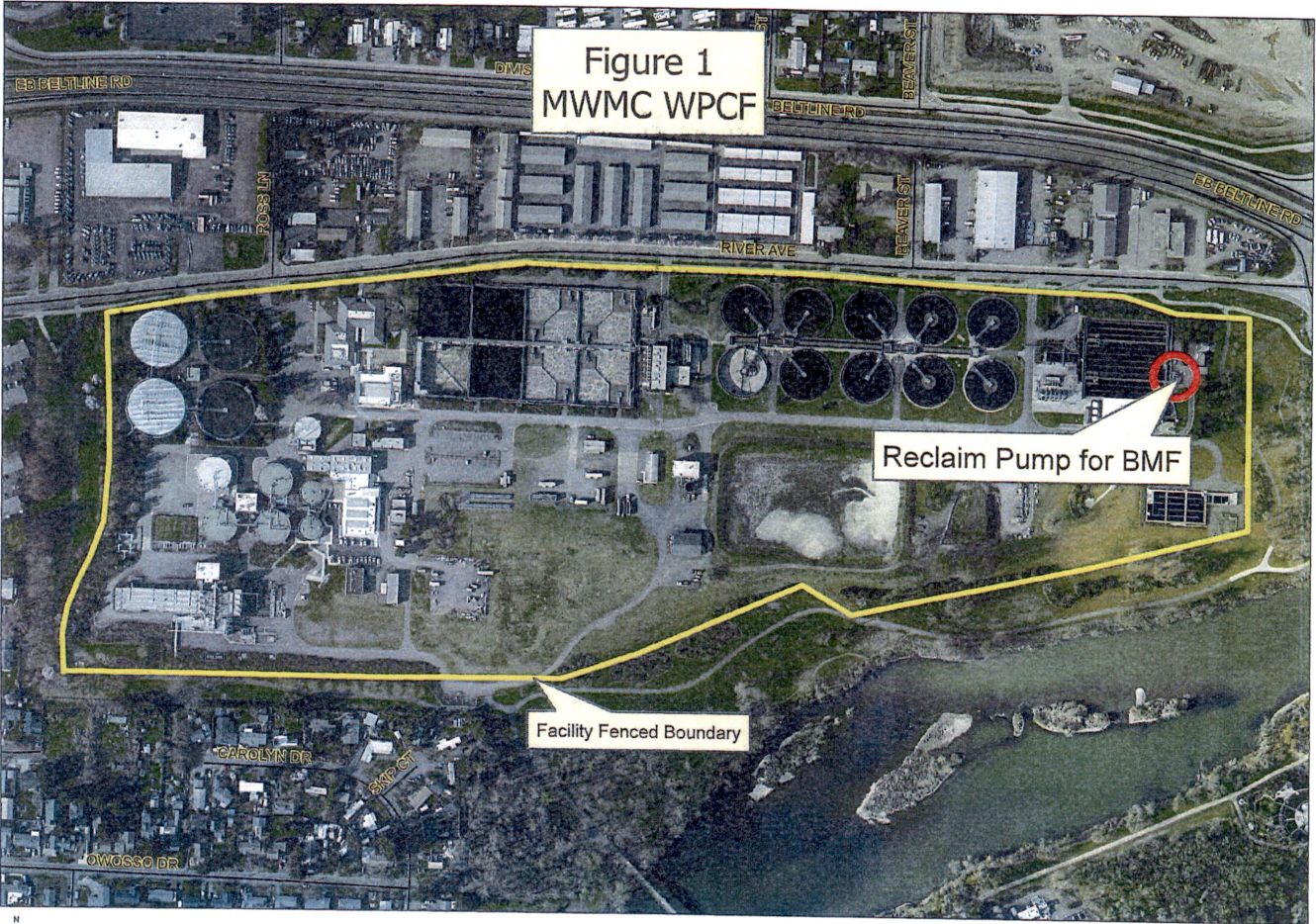


Figure 1
MWMC WPCF

Reclaim Pump for BMF

Facility Fenced Boundary

Map Scale: 1:4,000

Caution:
This map is based on imprecise
source data, subject to change,
and for general reference only.



Figure 2 - MWMC Infrastructure Map

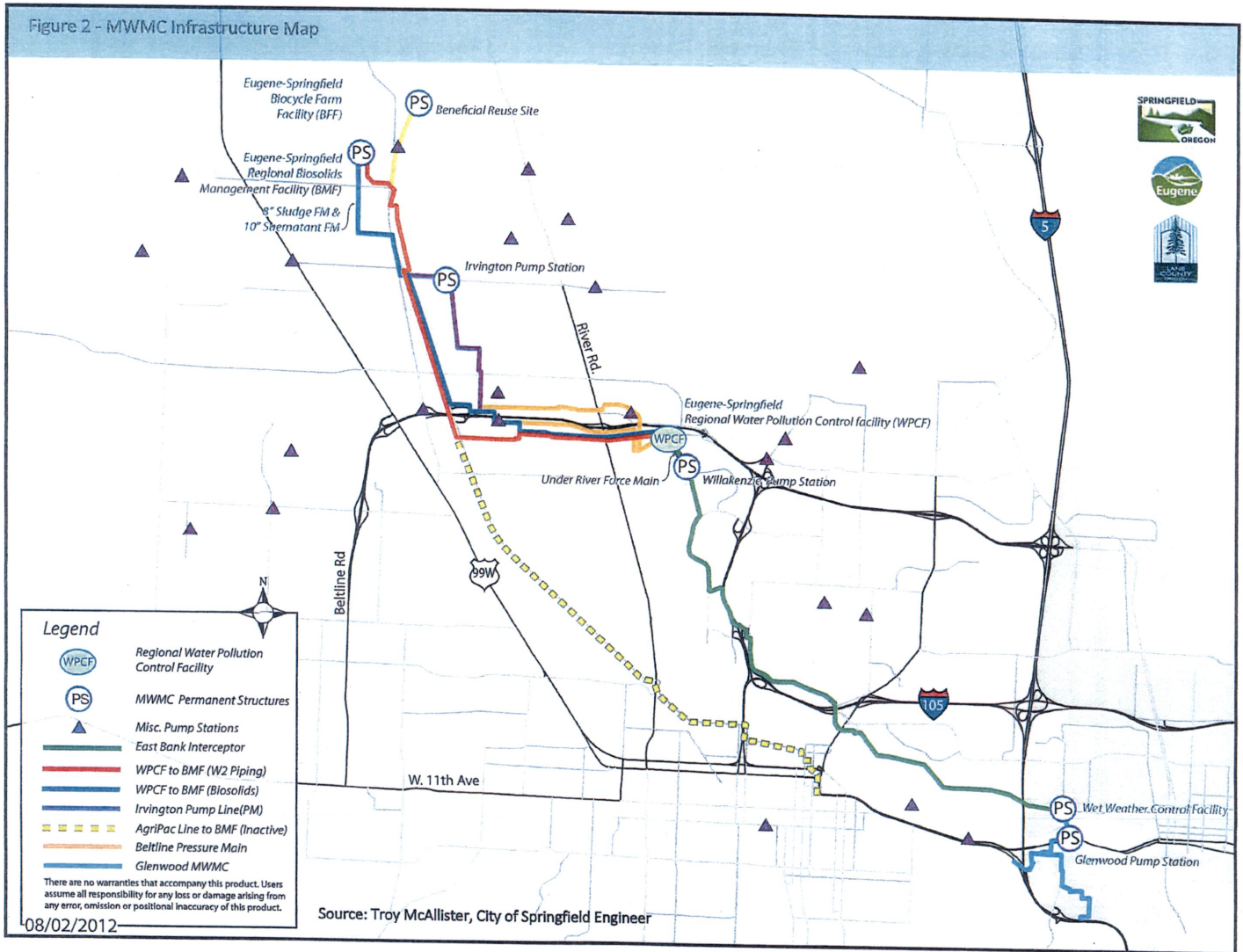


Figure 4 - MWMC Reuse Site Map

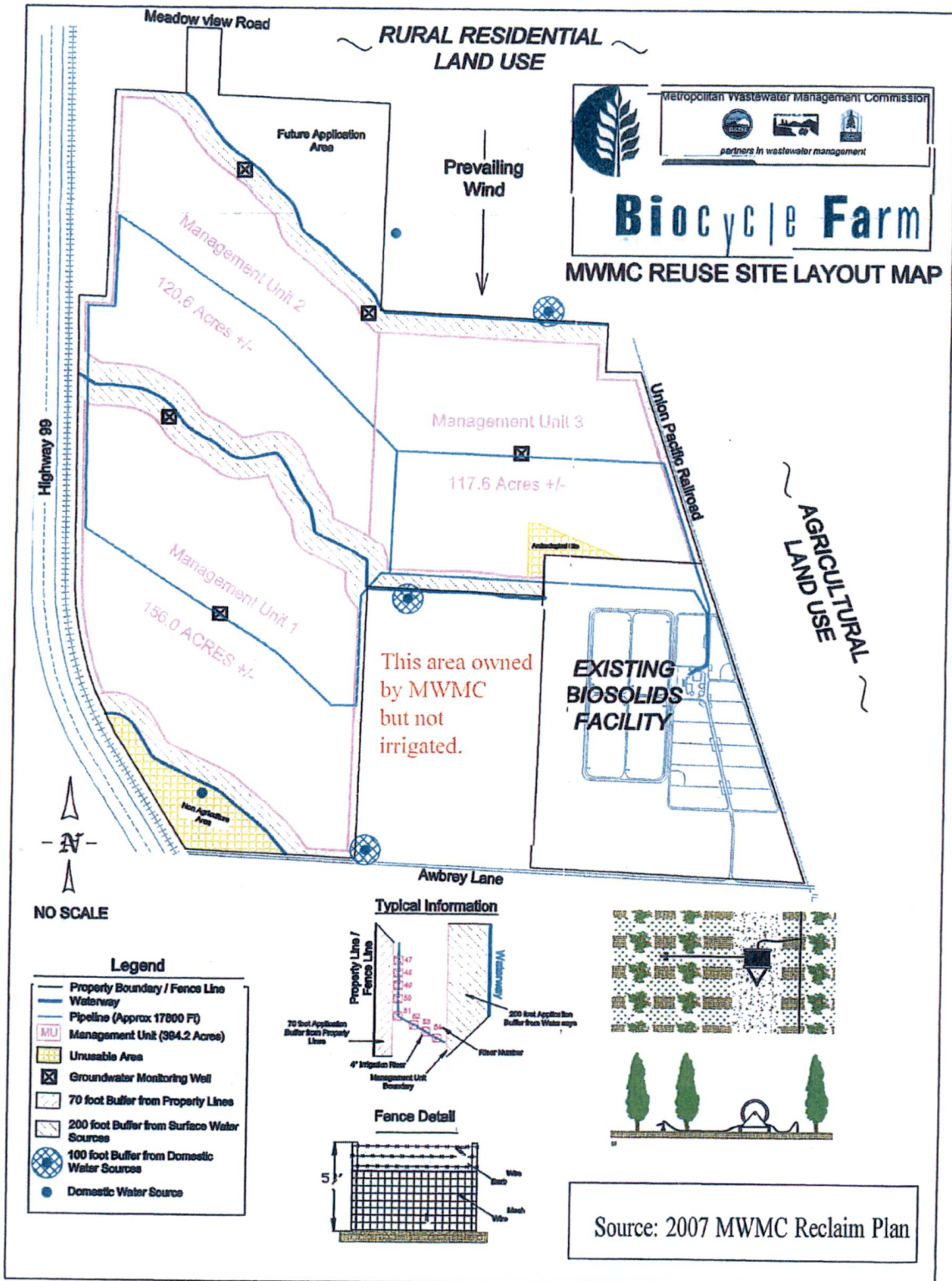
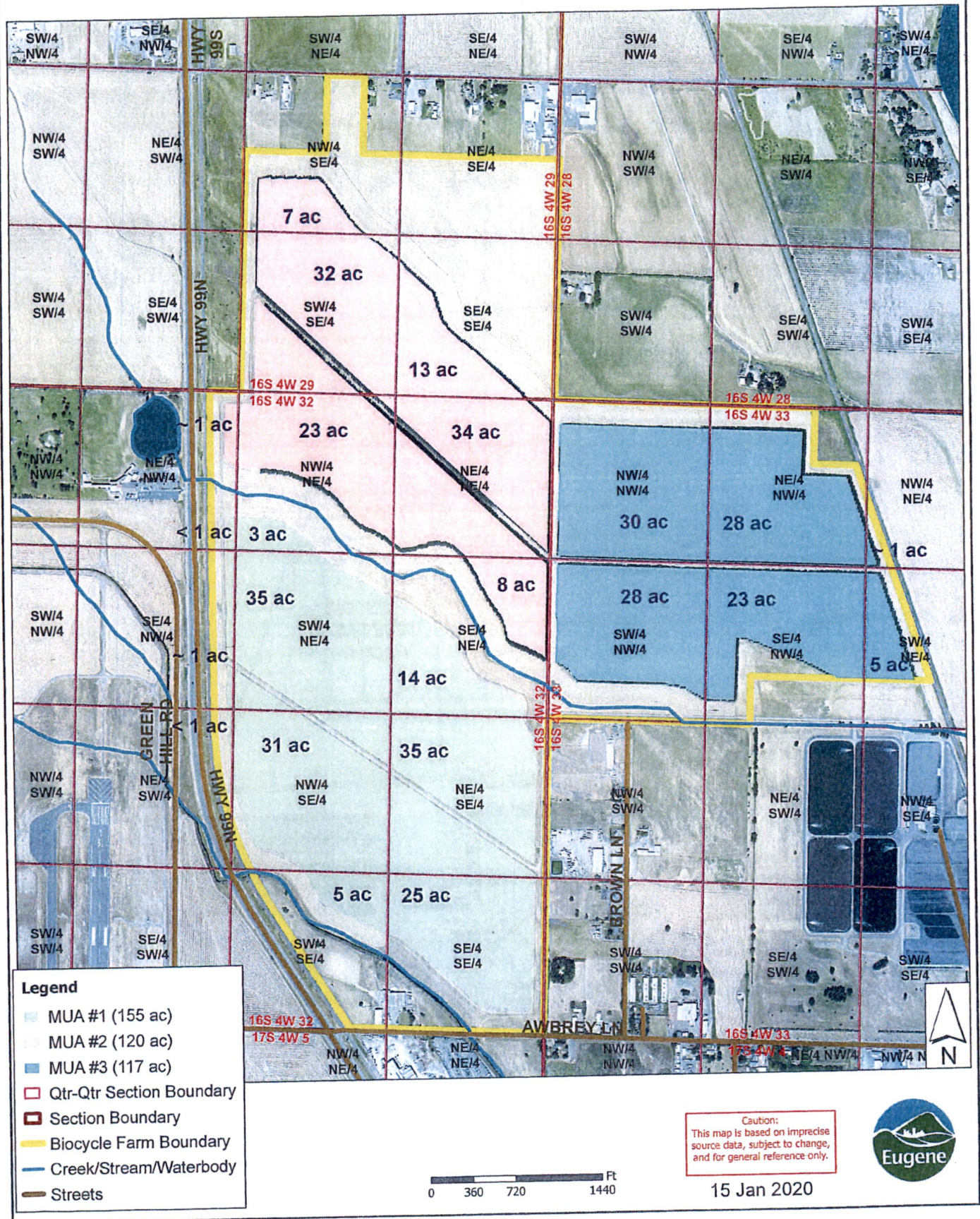


Figure 5 - MWMC Biocycle Farm Reuse Water Irrigation Application Areas



- Legend**
- MUA #1 (155 ac)
 - MUA #2 (120 ac)
 - MUA #3 (117 ac)
 - Qtr-Qtr Section Boundary
 - Section Boundary
 - Biocycle Farm Boundary
 - Creek/Stream/Waterbody
 - Streets

Caution:
This map is based on imprecise source data, subject to change, and for general reference only.



15 Jan 2020