

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:)
) R15-22
PUBLIC WATER SUPPLIES: PROPOSED)
AMENDMENTS TO 35 ILL. ADM CODE) (Rulemaking-Water)
PARTS 601,602, AND 603)

NOTICE OF FILING

PLEASE TAKE NOTICE that I have electronically filed today with the Illinois Pollution Control Board ILLINOIS EPA's RESPONSE TO BOARD QUESTIONS for the above captioned rulemaking, a copy of which is herewith served upon you.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL
PROTECTION AGENCY

By: /s/Joanne M. Olson
Joanne M. Olson
Assistant Counsel
Division of Legal Counsel

DATED: July 1, 2015

1021 N. Grand Ave. East
P.O. Box 19276
Springfield, IL 62794-9276
(217) 782-5544

THIS FILING IS SUBMITTED ON RECYCLED PAPER

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

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) R15-22
PUBLIC WATER SUPPLIES: PROPOSED)
AMENDMENTS TO 35 ILL. ADM CODE) (Rulemaking-Water)
PARTS 601,602, AND 603)

ILLINOIS EPA's RESPONSE TO BOARD QUESTIONS

1. The Illinois Environmental Protection Agency (Illinois EPA) filed the instant rulemaking on May 8, 2015.
2. On May 28, 2015, the Agency prefiled the testimony of W. David McMillian and David C. Cook.
3. On June 25, 201, the Illinois Pollution Control Board (Board) filed questions for the Agency to be answered at the first hearing, scheduled on July 2, 2015 in Chicago, Illinois.
4. Illinois EPA hereby submits the attached responses to the Board's questions.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL
PROTECTION AGENCY

By: /s/Joanne M. Olson
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**THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S
RESPONSE TO BOARD QUESTIONS**

General Questions

1. The pre-filed testimony of Agency witness David McMillan (McMillan Test.) states that updating the Board's regulations on public water supplies as proposed here by the Illinois Environmental Protection Agency (Agency) is "the first step in a more concise and understandable framework for ensuring the protection of Illinois water consumers." McMillan Test. at 1. Has the Agency planned an overall or larger framework to achieve the stated goal? If so, please describe the next steps after this rulemaking.

Agency's Response: The Agency plans to revise the design operation and maintenance cetera rules in Part 653, and propose them to the Board as a new Part 604. The main component of these revisions will be to incorporate the Recommended Standards for Waterworks into the existing framework of the Part 653.

2. Mr. McMillan's pre-filed testimony also maintains that "making the proposed revisions . . . is more necessary than ever in advancing health protection through increasing regulatory discernment without cost to Illinois tax payers." McMillan Test. at 2. Please explain how the proposed amendments would, in the Agency's view, advance the identified objectives.

Agency's Response: Overtime, the regulatory scheme in Illinois has evolved into a dual system of Board rules and Agency rules. In addition, the SDWA identical in substance rules have been adopted by the Board, and parts of the Board's rules and Agency's rules became outdated and disjointed. The Agency believes the Board's rules must be revised and consolidated to make them more understandable and concise. They need to be more consistent with the Environmental Protection Act (Act), 415 ILCS 5 (2014) and the Public Water Supply Operations Act (PWSO Act), 415 ILCS 45 (2015). These proposed amendments will provide a clear framework for the regulated community and in-turn, provide increased health protection.

3. The pre-filed testimony of Agency witness David Cook (Cook Test.) describes the Agency's proposed amendments regarding water supply permitting. Cook Test. at 1-6.
 - a. To what extent can regulated entities file any of the required permit application documents electronically with the Agency? Please describe any plans the Agency has to move to wholly electronic submission and evaluation of permit applications.

Agency's Response: At this time, none. The Agency has not adopted rules for acceptance of electronic documents. The Agency prefers some documents such as plans and specifications to be submitted in hard copy format to make the documents more easily reviewable.

- b. To the extent that any of the proposed rules require submission of forms maintained by the Agency, please provide the forms for inclusion in the record.

Agency's Response: Please see attached, Exhibit A. The current forms for community water supply permitting are on the Agency's website.
<http://www.epa.illinois.gov/topics/forms/water-forms/drinking-water-permits/index>

4. The Agency states that it conducted outreach beginning in spring 2013 that led to two revisions of the proposed rules ultimately filed with the Board. Statement of Reasons (SR) at 29. Please describe any substantive changes made to the draft rules in the two rounds of revision and the stakeholder comments that led to the changes. Were any substantive changes made to the Agency's proposal between the last outreach, in fall 2014, and the filing of the proposal with the Board? If so, please describe the changes.

Agency's Response: Please see attached draft from February 2013, Exhibit B, and attached draft from October 2013, Exhibit C.

Questions on Specific Provisions

Section 601.104 **Analytical Testing**

5. Please clarify whether the phrase "these rules and regulations" in subsection (a) means rules and regulations under 35 Ill. Adm. Code Subtitle F. If so, would it be acceptable to amend subsection (a) as follows:
 - a) To determine compliance with these public water supplies rules and regulations under 35 Ill. Adm. Code Subtitle F, all sampling, monitoring and testing ~~and physical, chemical, bacteriological, and microscopic analyses~~ shall be made according to the methods described in 35 Ill. Adm. Code 611, the National Primary Drinking Water Regulations (40 CFR 141) and any other method specifically approved by the ~~Environmental Protection Agency (Agency)~~.

Agency's Response: The Agency has no objection to this change, other than "public water supplies" should be "community water supplies."

Section 601.105 **Definitions**

6. The proposed definition of "Aquifer property data" refers to several aquifer hydraulic properties. The Illinois Environmental Protection Agency (Agency) has proposed defining each of the aquifer properties in this section, except for "head." Please comment on whether a definition of "head" or "hydraulic head" should be added to Section 601.105.

Agency's Response: The Agency has no objection to adding a definition of head. “Head means the sum of the elevation head, pressure head, and velocity head at a given point in an aquifer.”

7. Since the term “cross-connection” is not used in the substantive portions of the proposed amendments to Parts 601, 602 and 603, please clarify whether the proposed definition of “cross-connection” is intended to address the cross-connection provisions under 35 Ill. Adm. Code 607.104. If so, please comment on whether the proposed definition has any implications for the scope of the cross-connection provisions under Section 607.104.

Agency's Response: Yes. The proposed definitions are applicable to Parts 601, 602, 603 and 607. See proposed Section 601.105(a).

8. Several definitions are proposed to be deleted since they are not used in the Agency’s proposal. SR at 9. Please clarify whether any of the deleted terms are used in other parts of Subtitle F regulations. If so, please comment on whether the Board should retain such definitions.

Agency's Response: The proposed definitions are applicable to Parts 601, 602, 603 and 607. The terms deleted are not used in these parts. When the Agency proposes a new Part 604, more terms will be added to Part 601, as new terms are used in that regulatory proposal.

Section 602.103 **Public Water Supply Capacity Development**

9. This section requires all new community water supplies (CWS) to demonstrate technical, financial, and managerial capacity consistent with federal Safe Drinking Water Act requirements and regulations adopted by the Agency. Please clarify whether the Agency has adopted regulations to implement this provision. If so, please provide a citation to the Agency rules.

Agency's Response: Yes, please see 35 Ill. Adm. Code 652.701 and 652.702.

Section 602.105 **Standard of Issuance**

10. Subsection (a)(2) provides, “[t]he Agency shall not issue ~~grant~~ any construction or operating permit required by this Part unless the applicant submits adequate proof that the community ~~public~~ water supply facility conforms to the following design criteria.” Please clarify whether the applicant needs to demonstrate that the CWS facility conforms to any one of design criteria provided in subsections (a)(2)(A) through (a)(2)(D). If so, please propose appropriate changes to reflect that intent.

Agency's Response: The community water supply needs to conform with all of the standards listed, if applicable. If there is a conflict, the design criteria adopted by the Agency in Part 653 shall be followed.

Additionally, the agency noticed a typo in subsection (a)(2)(C). “NFS” should be “NSF”.

11. Subsection (b) requires an applicant to submit “proof that the application of the algicide or aquatic pesticide will not cause a violation of the Act, Board regulation, or Agency regulation.” Typically, a permit applicant is required to submit adequate proof that issuance of a permit will not cause a violation of the Environmental Protection Act (Act) or Board regulations. Please explain the rationale for including “Agency regulation” in subsection (b), and provide citations to the Agency regulation that addresses application of algaecides or pesticides.

Agency's Response: Under the Board’s rules in Section 602.115, the Board granted the Agency the ability to adopt design, operation and maintenance criteria. These are currently found in Part 653. We included “Agency rules” because algicide or pesticide application must comply with Part 653, when applicable.

Section 602.106 **Restricted Status**

12. The proposed amendments to subsection (b) require the Agency to publish a comprehensive list of CWS subject to restricted status on its “webpage.”
 - a. Please explain why the Agency proposes not to publish the Restricted Status List in the *Environmental Register*, and address whether the Agency would be willing to publish the list in both the *Environmental Register* as well as on the Agency’s website.

Agency's Response: The Agency would prefer to only publish the Restricted Status List on the webpage because this type of publication receives wider disputation than the *Environment Register*. However, if the Board prefers to continue the process of publishing in the *Environmental Register*, the Agency has no objection.

- b. Please clarify whether the Agency currently maintains a “Restricted Status List” on its website. If so, provide the link to the existing list. Also, please address whether any existing restricted status list on the Agency website will be updated to comply with subsection (b).

Agency's Response: Yes. The Agency publishes the “Restricted Status List” on its website. Currently, the Agency tries to update the “Restricted Status List” on a quarterly basis. The list can be found at:
<http://www.epa.illinois.gov/topics/forms/water-permits/drinking-water/restricted-status/index>

- c. Could this subsection refer to the Agency's "website" rather than "webpage" to be consistent with references to the website in other Board regulations?

Agency's Response: The Agency has no objection.

Section 602.107 **Critical Review**

13. Please clarify whether the Agency currently maintains a "Critical Review List." If so, please provide the website address for the existing list. Does the existing list address CWS or sewage treatment plants? If the existing list addresses sewage treatment plants, please explain how the Agency plans to distinguish the CWS Critical Review List from the existing list.

Agency's Response: The Division of Public Water Supplies does not regulate sewage treatment plants; therefore, the Critical Review List referred to in proposed Section 602.107 does not refer to sewage treatment plant. The list can be found at: <http://www.epa.illinois.gov/topics/forms/water-permits/drinking-water/restricted-status/index>

14. Subsection (a) states that "approaching the point of violation shall include, but not be limited to, exceeding 80 percent of the rate of any of the quantity regulations used to make a restricted status determination, a pressure violation that only affects a small portion of a distribution system, a violation of duplicate unit requirements, or a failure to provide an emergency power source." Please clarify whether listing a CWS with violations of minimum pressure, duplicate unit requirement, or failure to provide emergency power source on a Critical Review List is consistent with the requirements of Section 602.106. Could the Agency propose changes to the language of this section to avoid reliance on a violation of Board regulations to trigger placement on the Critical Review List?

Agency's Response: The Agency believes maintaining a Critical Review List is consistent with the requirements of Section 602.106. The Restricted Status List and the Critical Review List cover two different types of systems. The Restricted Status List covers systems currently in violation of the Act or Board regulations. The Critical Review List covers systems approaching the point of violating the Act or Board rules. Another way to understand the difference is that the Restricted Status List is reactive and the Critical Review List is preventive. These concepts rely on a violation or approaching violation of the Act or a Board regulation.

15. Please clarify whether the Agency will limit the availability of permits to CWS on the Critical Review List.

Agency's Response: If the proposed project will result in a violation of the Act or the Board's rules, the Agency will deny the permit request.

Section 602.108 **Right of Inspection**

16. Several provisions under this section allow the Agency to conduct its inspection activities at “reasonable times.” Please clarify whether “reasonable times” as used in this section means during operational hours.

Agency's Response: The Agency based the language in this proposed Section on Section 4(d) of the Act and Section 309.147. The Agency believes “reasonable times” contemplates emergency situations outside of operational hours.

Section 602.111 **Application Forms and Additional Information**

17. This section states that the Agency may prescribe the permit application form for CWS. Please indicate if the Agency has prescribed permit application forms for CWS.

Agency's Response: Please see Exhibit A.

Section 602.112 **Filing and Final Action by Agency on Permit Applications**

18. Subsections (a)(1) and (b)(1) require the Agency to send the applicant a written notification of receipt of the “complete” application. Please clarify whether the Agency will review the application to determine if the application is complete, and whether the Agency will notify the applicant if it determines that the application is incomplete.

Agency's Response: The Agency will review the application to determine if the application is administratively complete, and the Agency will notify the applicant if it determines that the application is incomplete.

Section 602.215 **Submission of Applications, Plans and Specifications**

19. Subsection (b) provides that “permit applications shall be mailed or delivered to the appropriate address designated by the Agency.” Please clarify whether the mailing address will be designated on any application forms developed by the Agency or on the Agency’s website. If not, please provide the mailing address for inclusion in the rule.

Agency's Response: The address is on the application. Please see Exhibit A.

Section 602.225 **Engineer’s Report**

20. This section requires an Engineer’s Report to be submitted upon the Agency’s request.
- a. Please clarify whether the Agency will request an Engineer’s Report after the receipt of the application for construction permit.

Agency's Response: Yes, when necessary, based on the proposed project.

- b. Would certain types of construction activities always require the construction permit application to include an Engineer's Report? If so, should the rules specify those types of construction activities?

Agency's Response: No. During outreach, the engineering community requested flexibility as to when engineering reports would be necessary because of the costly nature of preparing engineering reports for all projects falling within certain categories. Instead, the Agency proposed language that allows discretion on a project-by-project basis.

- c. Please comment on whether the Engineering Report must include a professional engineer's seal and signature consistent with Section 602.105(a)(3).

Agency's Response: No. Proposed Section 601.105(a)(3) requires plans and specifications to be signed by a professional engineer; therefore, the Agency does not believe the engineer report also needs to include a professional engineer's seal and signature.

- d. Please provide any estimates the Agency has of the cost of obtaining an Engineering Report for different types of construction activities.

Agency's Response: The Agency has not solicited this information from the engineering community because the scope and types of projects varies greatly, and therefore costs would vary greatly. The Agency's permit projects vary from \$1,000 projects to multi-million dollar projects.

21. Please clarify whether "waterworks," as used in this section, refers to the CWS. If so, would it be acceptable to the Agency to replace "waterworks" with "community water supply," since "waterworks" is not defined?

Agency's Response: Yes. The Agency has no objection.

Section 602.230 **Design Criteria**

22. Subsection (d) requires "the estimated average and maximum day water demands for the design period." Please clarify whether "maximum day" should be "maximum daily."

Agency's Response: The Agency believes "maximum day" should be "maximum daily."

23. Please comment on whether the design criteria must be prepared by a professional engineer consistent with Section 602.105(a)(3).

Agency's Response: No. Proposed Section 601.105(a)(3) requires plans and specifications to be signed by a professional engineer; therefore, the Agency does not believe the design criteria documents also need to include a professional engineer's seal and signature.

Section 602.235 **Specifications**

24. In subsection (c), please clarify whether the reference to “the requirements of Section 602.105” refers to the design criteria listed in Section 602.105(a)(2). If so, should the proposed rule cite to that subsection?

Agency's Response: Both proposed Section 602.105(a)(2) and Section 602.105(a)(3) apply. The Agency believes the current cross reference is sufficient.

Section 602.250 & 255 **Treatment Construction and Storage Construction Applications**

25. These sections require the applicant to submit information concerning construction of treatment and storage facilities “on plans” only. Please comment on whether the Agency would need any other information as part of the application similar to source or water main construction applications.

Agency's Response: No. The Agency requested information in proposed Section 602.250 is the minimum for treatment construction applications. The Agency’s requested information in proposed Section 602.255 is the minimum for storage construction application. Plans are required for all applications, and this information should be included on the plans and not in another form. The Agency also has the ability to request additional information under proposed Section 602.210(j).

Section 602.405 **Algicide Permit Application**

26. Subsection (a) requires applications for algicide permits to contain “the name and identification number of the Responsible Operator in Charge supervising the application of the copper sulfate, copper sulfate based products, or copper sulfate chemical aids.”
- a. Please clarify whether the algicide permit provisions apply only to the application of algicide under the supervision of the Responsible Operator In Charge. If not, please explain the intent of this subsection.

Agency's Response: Yes, the Responsible Operator in Charge must supervise the application of the algicide.

- b. Please clarify whether the types of algicide application allowed under this Subpart D are limited to copper sulfate based products. If not, would it acceptable to the Agency to add the term “algicide” to subsection (a) as in Section 602.400(a)?

Agency's Response: The types of alcidides application are limited to copper sulfate based products.

27. Subsection (j) requires that the application include “adequate information to support exceeding the limits as stated in 35 Ill. Adm. Code 302: Water Quality Standards.” Please clarify whether algicide application can result in exceedence of any water quality standards or criteria under Part 302.

Agency's Response: This language is currently in the Board’s regulations in Section 602.110(a)(3). The Agency is not proposing any changes to these existing Board requirements.

Section 602.410 Sampling

28. Subsection (b) specifies that “[t]he sample results must demonstrate that concentrations of copper do not pose a high health risk to water consumers.”

Agency's Response:

- a. Please clarify whether the demonstration under subsection (b) is limited to copper based algicide products only.

Agency's Response: Yes. See the Agency’s response to Question 26(b).

- b. Please address how the Agency defines a “high health risk” for purposes of this subsection.

Agency's Response: The basis for high health risk is found in Section 611.350(c)(2).

- c. Please comment on the criteria that will be used to demonstrate that copper concentrations do not pose a “high health risk” to water consumers.

Agency's Response: The criteria to demonstrate that copper concentrations do not pose a high health risk is found in Section 611.350(c)(2).

Section 602.500 Other Aquatic Pesticide Permit Requirements

29. Subsection (a) prohibits the application of “an aquatic pesticide, other than an algicide, copper sulfate, copper sulfate based products, or copper sulfate chemical aids to any stream, reservoir, lake, pond or other body of water used as a community water supply source without an Aquatic Pesticide Permit issued by the Agency, where the application of the pesticide will have an effect on any community water supply. Effect shall be defined as any measurable concentration of the pesticide in the intake water of the community water supply.”

- a. Please clarify whether this provision applies to CWS regardless of the upstream distance to the aquatic pesticide application location.

Agency's Response: This provision applies to CWS regardless of upstream distance to the aquatic pesticide application location.

- b. Please explain how this provision will be implemented to ensure protection of the CWS.

Agency's Response: The application of pesticides must comply with other State and federal law. The protections provided by Subpart E are additional protections. If a pesticide applicator knows there will be an impact on a CWS and the application is greater than 20 miles from the CWS, the applicator is required to apply for a permit under subsection (a). If a pesticide applicator applies a pesticide greater than 20 miles from the supply without a permit, and this application has an impact on CWS, the applicator may be subject to an enforcement action.

- c. Regarding the definition of “effect,” please clarify whether “measurable concentration” means detection of the pesticide in the intake water.

Agency's Response: Measurable concentration means a detection.

30. Please clarify whether “public or food processing water supply intake,” as used in subsection (b), includes CWS intake.

Agency's Response: Yes. Public or food processing water supply intake is defined in Subtitle C of the Board’s regulations and includes a CWS intake.

Section 602.505 **Other Aquatic Pesticide Permit Application Contents**

31. Subsection (g) requires documentation showing notifications of all water supplies described in Section 602.500 along with the names of water supply operators who will be notified 24 hours before pesticide application. Please clarify whether operators of all water supplies described in Section 602.500 must be notified 24 hours prior to aquatic pesticide application. If not, please identify the water supply operators who must be notified 24 hours before pesticide application.

Agency's Response: Yes. The Responsible Operator in Charge for all CWS described in proposed Section 602.500 must be notified. The reference to operators should be “Responsible Operator in Charge.” This will ensure consistency with proposed Part 603.

Section 602.520 **Extension of Permit Duration**

32. In subsection (c), would it be acceptable to the Agency if “two months” were replaced by “60 days”?

Agency's Response: The Agency has no objection.

Section 603.102 **Administrative Contact**

33. Does this section require a CWS to designate an Administrative Contact? In addition, please clarify whether the Administrative Contact would have authority to act on behalf of the CWS in all aspects of its operations, or only with respect to administrative matters.

Agency's Response: No. Community water supplies are not required to designate an administrative contact under proposed Section 603.102. If an administrative contact is designated, that administrative contact has an agency relationship with the owner or official custodian, allowing the administrative contact to act on behalf of the owner or official custodian on all matters related to the CWS. A CWS and an administrative contact can specifically define the scope of their agency relationship.

34. Should "Administrative Contact" be included in the definitions section (Section 601.105)? If so, please propose an appropriate definition to include in that section.

Agency's Response: No. The Agency does not feel this is necessary. However, the Agency has no objection if the Board were to do so.

35. Please clarify whether the phrase "the agency relationship no longer exists" in the last sentence of this section means that the designated agent is no longer the Administrative Contact of the CWS. If so, please propose language changes to reflect the intent of this section.

Agency's Response: The phrase "the agency relationship no longer exists" in the last sentence means that the designated agent is no longer the Administrative Contact of the CWS.

The Agency proposes the following change:

An individual's designation as Administrative Contact shall remain in effect until the Agency receives written notice otherwise ~~that the agency relationship no longer exists.~~

Section 603.103 **Responsible Operator In Charge**

36. Quoting Section 1.1(a) of the Public Water Supply Operations Act (415 ILCS 45/1.1(a)), proposed Section 603.103(f) provides that a designated Responsible Operator in Charge (ROINC) is "jointly accountable with the owner of the [CWS] for the proper operation of the portions of the [CWS] over which he or she has been designated as the [ROINC]." Please address whether, in the Agency's view, this joint accountability means that the ROINC, along with the CWS owner, is jointly and severally liable for major failure or other operational problems.

Agency's Response: Yes.

CERTIFICATE OF SERVICE

Joanne M. Olson, Assistant Counsel for the Illinois EPA, herein certifies that she has served a copy of the foregoing NOTICE OF FILING; and ILLINOIS EPA's RESPONSE TO BOARD QUESTIONS upon persons listed on the Service List by placing a true copy in an envelope duly addressed bearing proper first class postage in the United States mail at Springfield, Illinois on – July 1, 2015, or by sending an email from my email account (joanne.olson@illinois.gov) to the email addresses designated on the Service List with the following documents attached

PDF with 15 pages

PDF with 190 pages

in an e-mail transmission on or before 5:00 pm on July 1, 2015.

ILLINOIS ENVIRONMENTAL
PROTECTION AGENCY

By: /s/Joanne M. Olson
Joanne M. Olson
Assistant Counsel
Division of Legal Counsel

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THIS FILING IS SUBMITTED ON RECYCLED PAPER

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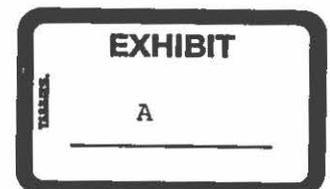
Application for Algicide Permit

This form is to be used to obtain an Algicide Permit pursuant to the requirements of 35 Ill. Adm. Code 602.103. This form may be completed online, a copy saved locally and printed before it is signed. You may also complete a printed copy manually. Submit two signed copies of this form to the Illinois EPA, Bureau of Water, Division of Public Water Supplies, Permit Section at the address listed above.

1. Name of Public Water Supply: _____
2. Municipality or Township: _____
3. Name of feeder stream from which raw water is obtained: _____
4. Name of Impoundment from which water is obtained: _____
5. Location of Impoundment or intake: quarter, _____ Section: _____ Range: _____
Township: _____
6. Has an IEPA Algicide Permit been obtained previously? Yes No
Algicide Permit No. _____ -FY _____ Date: _____

NOTE: If the applicant has previously obtained an algicide permit from this Agency, items 1, 2, 6, 20 and 21 must be completed. However, items 3 - 5, and 7 - 15 may be answered by inserting "same" in the appropriate space, unless there will be a change from the information contained in the previous permit application. The information requested in items 16 - 18 need only reflect the applicant's experience since the most recent Algicide permit was issued.

7. Level at which water is being obtained: _____ Feet below top of inlet structure.
8. Surface area of impoundment: _____ acres.
9. Average depth of impoundment: _____ feet.
10. Maximum depth of impoundment: _____ feet.
11. Volume of impoundment: _____ gallons (acre-feet, cubic feet, etc.)
12. Approximate number of copper sulfate treatments to be made during the algae season: _____
13. Amount of copper sulfate to be used for each treatment: _____ pounds.
14. Approximate time interval between each treatment: _____ days.



15. Describe the method that will be used to apply copper sulfate. This is to include information such as the method by which copper sulfate will be introduced to the water; the strength of copper sulfate solution if the method of treatment is by spraying; the areas of the impoundment to be treated; the route the boat will take during copper sulfate treatment; and other details pertinent to the treatment

16. Provide a brief history of algae problems, along with a description of the methods of control, including the types and amounts of chemicals used, frequencies of treatment, and the range of months in which algae has historically been treated.

17. Describe any adverse effects algae has had on the various treatment processes within the water plant and any adverse effects algae has had on finished water quality.

18. Describe any fish kills, which have resulted from copper sulfate treatment.

19. Water Samples:

A total of four water samples are required and must be collected for each copper sulfate application. Sample bottles will be provided by the Agency upon request. After all the samples are collected, they are to be submitted together to the Illinois Environmental Protection Agency laboratory within five days. Water samples are to be collected at the following locations and times.

- 1) One sample before treatment from an area representative of the reservoir other than the raw water intake and which will receive a normal copper sulfate dosage.
- 2) One sample from the same location as that in (1) above, collected immediately after copper sulfate treatment.
- 3) One sample from the same location as that in (1) above, collected approximately 24 hours following copper sulfate treatment.
- 4) One sample from the raw water intake, collected approximately 24 hours following copper sulfate treatment.

20. Certified Water Supply Operator in responsible charge of copper sulfate applications.

Name of Certified Operator: _____

Certified Class: _____

Certificate Expiration Date: _____

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Signature

Date

Title: _____

21. Certificate by Owner(s) or Official Custodian(s) of the Public Water Supplies (or agent)

I (we) hereby certify that the information contained in this application is true and correct to the best of my (our) knowledge and that representative water samples will be collected from the impoundment and submitted to the Illinois Environmental Protection Agency laboratory for analyses in accordance with item 19 of the application.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Name of Public Water Supply: _____

Street: _____

City: _____ State: _____ Zip _____

Signature

Date

Title: _____

FOR IEPA USE ONLY

This application, when approved by the Illinois Environmental Protection Agency, constitutes the Algicide Permit.

This Permit is issued under authority granted by 35 Ill. Adm. Code 602.

This Algicide Permit, No. _____ -FY _____ is issued on _____

and is valid until _____. This permit is valid only for the stream and impoundment named in items 3 and 4

and for the conditions specified in items 12 - 14 of the application for this permit.

David C. Cook, P.E.
Acting Manager, Permit Section
Division of Public Water Supplies



Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • Box 19276 • Springfield • Illinois • 62794-9276

Division of Public Water Supplies Application for Construction Permit

The regulations referenced in this application are taken from the Illinois Environmental Protection Act, 2007. All subsequent rules, regulations, and violations listed in this document can be found within the Act. This application may be completed online, a copy saved locally, and printed before it is signed and mailed to the Illinois EPA.

1. Name of Public Water Supply: _____

2 Facility ID: IL _____ County: _____

3. Location of Project: _____

4. Title of Plans: _____

Number of Construction Drawings: _____

5. Documents being Submitted:
- | | |
|---|--|
| <input type="checkbox"/> Application for Construction Permit | <input type="checkbox"/> Engineer's Design Summary |
| <input type="checkbox"/> Schedule A - Cost Estimate | <input type="checkbox"/> Schedule C-I Well Drilling Only |
| <input type="checkbox"/> Schedule B - Water Main Construction | <input type="checkbox"/> Schedule C-II Well Completion |
| <input type="checkbox"/> Specifications | <input type="checkbox"/> Permit Fee (Applicable Water Main Only) |
| <input type="checkbox"/> Construction Drawings | |

6. Scope of Project:

7. Illinois Commerce Commission: Are you a privately owned water company subject to Illinois Commerce Commission rules?

Yes No

8. Infringement on Other Public Water Supplies: Will any part of this project be located within the boundaries of an area served by another PWS:

Yes No

9. Certifications

NOTE: EACH PERSON SIGNING THIS APPLICATION CERTIFIES THAT THE INFORMATION IN THE APPLICATION IS COMPLETE AND ACCURATE, AND THAT THE TEXT OF THE APPLICATION HAS NOT BEEN CHANGED FROM THE AGENCY'S OFFICIAL CONSTRUCTION PERMIT APPLICATION FORM.

9.1) Certificate by Design Engineer

I hereby certify that I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete and accurate.

Name _____ Registration Number _____
 Firm _____
 Address _____
 City _____ State _____ Zip _____ Phone Number _____

 Signature _____ Date _____

9.2) Certificate by Applicant(s) to Construct

I hereby certify that I have read and thoroughly understand the conditions and requirements of this submittal. I/the representative company hereby agree to conform with the Standard Conditions and any Special Conditions made part of this Construction Permit.

Name _____
 Address _____
 City _____ State _____ Zip _____ Phone Number _____

 Signature _____ Date _____

9.3) Water Main Fees

Section 16.1 of the Illinois Environmental Protection Act (Act) requires the Agency to collect a fee for certain applications for the installation or extension of water mains. There are no permit fees for other improvements (for example, treatment facilities) to public water supply systems and only certain water main projects are affected. The Agency will not approve any construction application without the required fee. Except for the conditions listed in Section 9.4, the following fee schedule applies per Section 16.1(d) of the Act:

<u>Fee</u>	<u>Total Length of Water Main</u>
<input type="checkbox"/> \$ 0	200 feet or less
<input type="checkbox"/> \$ 240	Greater than 200 feet but not more than 1,000 feet
<input type="checkbox"/> \$ 720	Greater than 1,000 feet, but not more than 5,000 feet
<input type="checkbox"/> \$1200	Greater than 5,000 feet

Please check the appropriate fee; make check or money order payable to: Treasurer, State of Illinois and submit along with this application. Any fee remitted to the Agency shall not be refunded at any time or for any reason, either in whole or in part.

9.4) Water Main Fee Exceptions - READ CAREFULLY BEFORE SIGNING THE FOLLOWING-

The Water Main Permit fee does not apply to:

- a) Any Department, Agency or Unit of State Government.
- b) Any unit of local government where all of the following conditions are met:
 - i. The cost of the installation or extension is paid wholly from monies of the unit of local government, state grants or loans, federal grants or loans, or any combination thereof.
 - ii. The unit of local government is not given monies, reimbursed or paid, either in whole or in part, by another person (except for State grants or loans or federal grants or loans).

I, _____ hereby certify that this project meets the above criteria
(Unit of local government & signature of authorized official)

DO NOT SIGN HERE UNLESS PROJECT MEETS FEE EXCEPTION CRITERIA.

9.5) Agreement to Furnish Water (this section must be completed if applicable)

The _____ has agreed to furnish water to the area in which water main
(City, Town, Village, Water Company or Water Authority)

extensions are proposed by _____ according to plans
(Applicant to construct)

titled _____

prepared by _____
(Engineering Firm)

The undersigned acknowledges the public water supply's responsibility for examining the plans and specifications to determine the proposed extensions meet local laws, regulations, and ordinances.

Signature of Authorized Public Water Supply Official	Title of Authorized Public Water Supply Official	Date
--	--	------

9.6) Certification by Owner(s) of Completed Public Water Supply Improvement(s)

I hereby certify that I have read and thoroughly understand the conditions and requirements of this submittal. I hereby agree to accept ownership of the project upon satisfactory completion.

Name of Public Water Supply	Facility ID
-----------------------------	-------------

Address	City	State	Zip
---------	------	-------	-----

Signature of authorized public water supply official	Date
--	------

Printed name of authorized public water supply official	Printed title of authorized public water supply official
---	--

NOTE: Applications signed by a person other than a responsible municipal official, corporation officer, or owner, must be accompanied by evidence of authority to sign the applications, unless documentation of such authority is on file with the Division of Public Water Supplies.

Felony Warning: Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony (415 ILCS 5/44 (h)).

This Agency is authorized to require this information under Illinois Compiled Statutes, 415 ILCS 5/39 (2000). Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied.

Electronic Filing - Received, Clerk's Office : 07/01/2015

IEPA - DIVISION OF PUBLIC WATER SUPPLIES - PERMIT SECTION SCHEDULE A - ENGINEER'S COST ESTIMATE

Requests by various agencies and state and federal representatives for information on the cost of water works improvements have been numerous. Therefore, we feel there is a need for obtaining and compiling this information. We would appreciate your cooperation by supplying us with this data with each set of plans and specifications. Please submit the cost data with each of your projects sent in for approval.

1. Name of Public Water Supply _____

2. SOURCE

A. Stream intake, impoundment.	\$ _____	
B. Well (s).	\$ _____	
C. Others	\$ _____	
TOTAL		\$ 0.00 _____

3. TREATMENT

A. Aeration facilities and detention basins.	\$ _____	
B. High service pumps.	\$ _____	
C. Filtration and/or ion exchange softening	\$ _____	
D. Mixing and settling basins and/or flocculation equipment.	\$ _____	
E. Chlorination and fluoridation equipment.	\$ _____	
F. Recarbonation, chemical feeders, chemical handling equipment	\$ _____	
G. Lab, buildings and miscellaneous.	\$ _____	
TOTAL		\$ 0.00 _____

4. WASTE DISPOSAL FACILITIES

A. Pumps and piping.	\$ _____	
B. Holding structures	\$ _____	
C. Treatment unit.	\$ _____	
TOTAL		\$ 0.00 _____

5. STORAGE

A. Ground level tank(s).	\$ _____	
B. Elevated tank(s).	\$ _____	
C. Pressure tank(s).	\$ _____	
TOTAL		\$ 0.00 _____

6. DISTRIBUTION SYSTEM

A. Feeder mains, booster pump(s) and station(s).	\$ _____	
B. Water main extension(s)	\$ _____	
C. Complete distribution.	\$ _____	
TOTAL		\$ 0.00 _____

7. TOTAL PROJECT COST

\$ 0.00 _____

IL 532-0843

This Agency is authorized to require this information under Illinois Compiled Statutes, 1415 ILCS 5/39 (1998). Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.



Illinois Environmental Protection Agency

Bureau of Water • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Public Water Supplies, Permit Section Schedule B - Water Main Construction

This form may be completed online, a copy saved locally and printed before it is signed. You may also complete a printed copy manually. Submit the completed and signed form to the Illinois EPA, Division of Public Water Supplies, Permit Section at the address listed above.

Name of Public Water Supply: _____ ID# IL: _____

Project Title: _____

1. Check the appropriate boxes to indicate the specifications to be used for the water main:

- A. Standard Specifications for Water and Sewer Main Construction in Illinois (2014 Edition)
- B. Engineer's approved specifications on file with this Agency
- C. Public Water Supply approved specifications on file with this Agency
- D. Specifications submitted with the plan documents

2. Existing Population served by present supply: _____

3. Population to be served by water main extension: _____

4. Average daily pumpage from water works: _____ (MGD)

5. Maximum day pumpage from water works: _____ (MGD)

6. Capacity of water works: _____ (MGD)

7. Capacity of raw water source: _____ (MGD)

8. Capacity of existing line(s) at connection point(s): _____ (MGD)

9. Capacity of proposed water main extension or system: _____ (MGD)

10. Normal expected operating pressure on proposed water main extension: _____ (PSI)

11. Minimum expected operating pressure on proposed water main extension: _____ (PSI)

12. Pressure at point of connection at present maximum demand: _____ (PSI)

13. Calculated pressure at point of connection under maximum demand conditions after installation of water main: _____ (PSI)

14. Water mains to be installed must be listed below:

Pipe size (inches)					
Total Length (feet)					

15. Provide the general material specifications and type of joints:

This Agency is authorized to request this information under 415 ILCS 5/4(b)(2012). Disclosure of this information is voluntary and no penalties will result from the failure to provide the information. However, the absence of the information could prevent your application from being processed or could result in denial of your application from being or could result in denial of your application for certification. This form has been approved by the Forms Management Center.

Schedule B (cont'd)

16. Depth of Cover: _____

17. Disinfection:

A. Chemical Used: _____

B. Initial Disinfectant Concentration: _____ (mg/L)

C. Final Disinfectant Concentration: _____ (mg/L)

D. Retention Time: _____ (hrs)

E. Provisions must be made for collection of water samples to be collected for bacteriological analysis on two consecutive days taken at 24-hour intervals.

18. Sewer and Water Separation:

Minimum horizontal and vertical separation requirements of this Agency to be followed: Yes No

If "No", explain provisions for protection of water main:

19. List all deviations from this Agency's design criteria and state justifications for deviations.



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SCHEDULE C-1 WELL CONSTRUCTION

This form must be submitted for all proposed public water supply well projects. When a permit for construction of the well only (no pump) is requested, only this form needs to be submitted. Schedule C-II can be submitted at a later date when pumping and other ancillary equipment is to be installed. See instructions, definitions, and Table A for guidance in completing this form.

Name of Community Water Supply: _____ ID# IL _____
Project Title: _____

I. Well Location and Protection

a) Local Well Number _____

b) Location Latitude: _____ Longitude: _____ How was this determined?
Decimal Degrees Decimal Degrees Select one _____

OR
Degrees Minutes Seconds: Degrees Minutes Seconds Other _____

c) Sources, Potential Sources and Routes of Contamination Within 2,500' Radius of Proposed Well

- 1. Attached map shows proposed well location and all sources and potential sources of contamination: []
2. Summary and inventory of sources, potential sources, and routes of contamination:

Source _____ Min. Distance from Pollution Sources for
Explanation of Other Source and Distance from Well _____ Clay or Loam Soils (if applicable) _____

Activity Owner _____

Address _____ City _____ State _____ Zip _____

Description of the nature of the facility/unit/site/activity:

[Empty rectangular box for description]

d) Is the site subject to flooding? Yes No

Source of flood elevation data:

Maximum flood stage _____ M.S.L.

Elevation of Casing Top _____ M.S.L.

II. Well Construction and Water Quality

a) General Aquifer Description

b) Total depth of well (ft): _____

c) Casing: Diameter: _____ Material Type: _____

Depth: _____ Weight: _____

Height above Ground: _____ Thickness: _____

d) Grouting Type: _____

e) Screen: Diameter: _____ Material: _____

Thickness: _____

Screen Slot Size: _____ Length(ft): _____

Depth: _____

f) Temporary capping and security measures to be taken:

g) Collection and analysis of water samples to determine the presence of organic and inorganic contaminants in the source water shall be provided. The list of constituents to be sampled is provided in Appendix 1 of the instructions. An Operating Permit for the well will not be issued unless a copy of the sample results is included with the Operating Permit application.

h) Water level data, boring and well logs (expected and actual) shall be submitted to the Illinois State Geological Survey, Illinois State Water Survey, and the Illinois EPA. Drill cuttings shall be sent to the Illinois State Geological Survey. A permit and/or operating permit shall not be issued if this data is not collected and sent to the appropriate agencies, as follows:

Permit Section
Division of Public Water Supplies
Illinois Environmental Protection Agency
P.O. Box 19276
1021 N. Grand Avenue East
Springfield, IL 62794-9276

Groundwater Section
Illinois State Water Survey
2204 Griffith Drive
Champaign, IL 61820-7495

Illinois State Geological Survey
Natural Resources Building
615 E. Peabody Drive
Champaign, IL 61820-6964

III. Well Yield and Water Flow -

A pump test to determine aquifer properties on the proposed well shall be submitted. The purpose of this testing will be to prove that the proposed well will produce a specific flow rate for an extended period of time, quantify that flow rate, and determine certain aquifer characteristics. No C-II permit will be issued if pump test results are not submitted.

- a) For unconfined aquifers, the aquifer pumping test must be run an appropriate length of time to accurately determine the aquifer properties (including groundwater flow direction and gradient, transmissivity and hydraulic conductivity values, and specific capacity), but no less than 6 hours, using an appropriate number of observation wells. Where adequate hydrogeologic information, uniform conditions, and experience are available, testing requirements may be modified with permission from the Illinois EPA.

Proposed Pumping Test Procedures:

- b) For wells to be located less than 200' from surface water bodies, such as streams, lakes, rivers, etc. addition testing is required for a possible determination of Groundwater Under the Direct Influence of Surface Water (GWUDISW). Water samples from the well shall be analyzed in the field at least once every two hours during the pumping test for the following:

- pH
- Temperature
- Conductivity
- Hardness

In addition, representative water samples from the surface water body shall be taken at both the beginning and the end of the pumping test and analyzed for the same parameters.

Water sampling procedures:

IV. Test Boring/Well Abandonment

To ensure borings or test wells do not become routes for entry of contamination into the aquifer, they must be properly abandoned in accordance with the Illinois Water Well Construction Code, 77 Ill. Adm. Code Section 920.120 from the Illinois Department of Public Health, if not intended for continued use (i.e. monitoring well for the completed well).

Instructions for Schedule C-I (Well Construction)

This form must be submitted for all projects proposing to construct a public water supply well.

Water supply name and 7-digit ID Number: Provide the name of the community water supply here and the 7-digit ID number. Also provide the project title:

I. Well Location and Protection: A well should be located so as to provide the best available source for the Public Water Supply.

a) **Local Well Number:** Provide the designation used by the water supply to identify the proposed well (e.g. well#2, well 3A, etc.)

b) **Location:** Location should be recorded in Degrees, Minutes, and Seconds, or Decimal Degrees, and can be obtained from a GPS (Global Positioning System), interpolation from a map, interpolation from a photo, or other means.

c) **Sources, Potential Sources and Routes of Contamination in area of Proposed Well Within 2,500' Radius**

Minimum distances from sources of pollution are given in **Table A** for clay and loam soils. Minimum distances shall be increased when structures are to be located in more pervious soils. For example, the minimum distances shall be doubled when soils such as sand and gravels are present.

1) **Attached map with proposed well location:** Provide the location of the proposed well on a map of suitable scale (1" equals 400' or greater resolution) and showing a corresponding 2500 foot radial area with sources and potential sources of contamination identified. These sources, potential sources, and routes of contamination include: cleanup sites, sites with no further remediation (NFR) letter, restricted use ordinance area, Environmental Land Use Control (ELUC) area, groundwater management zone, (GMZ), as well as sites that can be considered "Potential route," "Potential primary source," and "Potential secondary source," as listed in the definitions. Also, see **Table A** for additional sources of pollution.

2) Provide a full inventory and summary of these sites, including the name and address of the activity's owner and a brief description of the nature of the facility/unit/site activity.

d) **Flooding,** If possible, a well should be located where it is not subject to seasonal flooding or surface water contamination. However, if it must be located in a floodplain, it shall be constructed in such a manner that seasonal floodwater and exceptional floods (a flood of record) cannot enter the well. Provide flood elevation data and the source for this information here.

II. Well Construction and Water Quality - In developing the well, the water supply must prove to the satisfaction of the Illinois EPA that it will be constructed in accordance with accepted methods and materials, and the aquifer quality with respect to its microbiological, physical and chemical characteristics, adequately identified.

a) **General Aquifer Description.** Provide information on the water-bearing formation that the proposed well will utilize. This should include the depth and thickness, type of formation (i.e., consolidated/unconsolidated, confined/unconfined) and the type of predominant material found in the aquifer formation (e.g., sand, sand and gravel, sandstone, etc.).

b) **Total Depth of Well.** Provide the total depth of the hole drilled from ground surface to bottom of the hole in feet.

c) **Casing.** This shall include diameter and depth of casing, height of casing above ground, type of material with weight and thickness.

d) **Cement Grouting.** Type, thickness and depth of grout to be used.

e) **Slot screen.** This shall include diameter, material, and screen size. If this is an open hole, it should be stated here.

f) If it will be an extended period of time before the well is fully developed (permanent pump and ancillary equipment and piping installed), identify measures to be taken to prevent entrance of contamination or vandalism.

g) All parameters listed in 35 Ill. Adm. Code 620.410 shall be analyzed to determine their presence in the source water.

h) A (C-II) permit and/or operating permit will not be issued if this data is not collected and sent to the appropriate agencies, including the Illinois EPA's Permit Section, Division of Public Water Supplies; the Illinois State Water Survey's Groundwater Section; and the Illinois State Geological Survey.

III. Well Yield and Water Flow - The purpose of the well pumping test is to provide evidence that a well will produce a specific flow rate for an extended period of time, quantify that flow rate, and determine certain aquifer characteristics. Proposed pumping test procedures shall be provided as a part of this application. If pump tests results are not submitted, no C-II Permit will be issued. If the C-I and C-II are issued together, no operating permit will be issued until the results are submitted.

a) For unconfined aquifers, the aquifer pumping test must be run an appropriate length of time to accurately determine the aquifer properties including transmissivity, hydraulic conductivity and specific capacity, but no less than 6 hours, utilizing an appropriate number of observation wells. Groundwater flow direction and gradient should be determined prior to pump test. Where adequate hydrogeologic information, uniform conditions, and experience are available, testing requirements may be modified with permission from the Illinois EPA.

b) For wells proposed to be located near (200' or less) surface water bodies (streams, lakes, rivers, etc.), water samples from the well shall be analyzed in the field at least once every two hours during the pumping test for the following parameters: pH, temperature, conductivity, and hardness. In addition, representative water samples from the surface water body shall be taken at both the beginning and the end of the pumping test and analyzed for the same parameters.

IV. Test Boring/Well Abandonment - To ensure borings or test wells do not become routes for entry of contamination into the aquifer, they must be properly abandoned in accordance with the Illinois Water Well Construction Code, 77 Ill. Adm. Code Section 920.120 from the Illinois Department of Public Health, if not intended for continued use (i.e. monitoring well for the completed well).

Definitions for Schedule C-1 (Well Construction)

"Potential Route" means abandoned and improperly plugged wells of all kinds, drainage wells, all injection wells, including closed loop heat pump wells, and any excavation for the discovery, development or production of stone, sand or gravel. This term does not include closed loop heat pump wells using USP food grade propylene glycol (415 ILCS 5/3.350). Large capacity septic systems are class V injection wells (35 Ill. Adm. Code, 704.105(a)(4) and 704.107).

"Potential Primary Source" means any unit at a facility or site not currently subject to a removal or remedial action which (415 ILCS 5/3/345):

- 1) Is utilized for the treatment, storage, or disposal of any hazardous or special waste not generated at the site; or
- 2) is utilized for the disposal of municipal waste not generated at the site, other than landscape waste and construction and demolition debris; or
- 3) is utilized for the landfilling, land treating, surface impounding or piling of any hazardous or special waste that is generated on the site or at other sites, owned, controlled or operated by the same person; or
- 4) stores or accumulates at any time more than 75,000 pounds above ground, or more than 7,500 pounds below ground, or any hazardous substances.

"Potential Secondary Source" means any unit at a facility or a site not currently subject to a removal or remedial action, other than a potential primary source, which (415 ILCS 5/3.355):

- 1) is utilized for the landfilling, land treating or surface impounding of waste that is generated on the site or at other sites owned, controlled or operated by the same person, other than livestock and landscape waste, and construction and demolition debris; or
- 2) stores or accumulates at any time more than 25,000 but not more than 75,000 pounds above ground, or more than 2,500 but not more than 7,500 pounds below ground, of any hazardous substances;
- 3) stores or accumulates at any time more than 25,000 gallons above ground, or more than 500 gallons below ground, of petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance; or
- 4) stores or accumulates pesticides, fertilizers, or road oils for purposes of commercial application or for distribution to retail sales outlets; or
- 5) stores or accumulates at any time more than 50,000 pounds of any de-icing agent; or
- 6) is utilized for handling livestock waste or for treating domestic wastewaters other than private sewage disposal systems as defined in the "Private Sewage Disposal Licensing Act."

Static water level - Stabilized water level in developed well prior to pumping taking place.

Pumping water level - Water level in well during pumping at time where water level has stabilized (depth to water in well is no longer increasing)

Lateral Area of Influence - The horizontal distance from the center of the well to where there is no reduction in the water level due to pumpage of the well.

Specific Capacity - An expression of the productivity of the well, obtained by dividing the rate of discharge of water from the well by drawdown (lowering of the water table) of the water level of the well.

Transmissivity - The rate at which water is transmitted through a unit width of an aquifer under a unit hydraulic gradient.

Hydraulic conductivity - The rate at which water can move through a permeable medium. Calculated by dividing the transmissivity by the saturated thickness of the aquifer.

Hydraulic gradient direction - The direction which yields a maximum rate of decrease in head. Recorded in degrees clockwise from north.

Method used to estimate or determine groundwater flow direction - Estimated from a topographic map or reference material or determined using groundwater elevation data points.

Table A - Minimum Distances from Sources of Pollution for Clay or Loam Soils

Cesspools, leaching sewage disposal pile	150'
Privies	150'
Septic tanks and subsurface septic tanks effluent disposal tile	75'
Livestock grazing areas or feedlots	50'
Sewers (non-watertight)	50'
Sewers (cast iron pipe, with mechanical joints)	25'
Sewers (extra-heavy cast iron pipe, asbestos-cement pressure pipe, prestressed concrete pipe, or PCVC pipe meeting water main standards, with pressure tested, mechanical or slip-on joints)	10'
Washwater sumps of reinforced concrete construction	10'
Environmental Land Use Control (ELUC) area	*
Groundwater Management Zone (GMZ) (35 Ill. Adm. Code 620.250)	*
Potential Primary Source (See Section 14.1A & 14.1B for location of well)	200/400'
Potential Secondary Source (See Section 14.1A & 14.1B for location of well)	200/400'
Potential Route (See Section 14.1A & 14.1B for location of well)	200/400'
Floodwaters - A horizontal distance shall be maintained by natural earth or fill. In addition, wells shall have a 6" concrete envelope completely surrounding the regular casing and extending at least 10' below original ground surface.	15'
Other	*
Floodwaters - A vertical distance shall be maintained to which structures and earth protection must be carried above maximum high water elevation.	2'
Sites with NFR (No Further Remediation) Letters	50'

*Site-specific - contact IEPA

Attachment 1 - NEW WELL GROUNDWATER QUALITY SAMPLING PARAMETERSInorganic Chemical Constituents

Antimony	Copper	Radium-226
Arsenic	Cyanide	Radium-226
Barium	Fluoride	Selenium
Beryllium	Iron	Silver
Boron	Lead	Sulfate
Cadmium	Manganese	Thalium
Chloride	Mercury	Total Dissolved Solids (TDS)
Chromium	Nickel	Zinc
Cobalt	Nitrate as N	

Organic Chemical Constituents

Alachlor*	ortho-Dichlorobenzene
Aldicarb	para-Dichlorobenzene
Aldrin	Dibromochloropropane*
Atrazine	1,2-Dichloroethane*
Benzene*	1,2-Dichloropropane
Benzo(a)pyrene*	1,1-Dichloroethylene
Carbofuran	cis-1,2-Dichloroethylene
Carbon Tetrachloride*	trans-1,2-Dichloroethylene
Chlordane*	Methoxychlor
Chlorobenzene	Methyl Tertiary-Butyl Ether
Dalapon	Monochlorobenzene
Dichloromethane*	Oxamyl (Vydate)
DDT	Pentachlorophenol*
Di (2 - Ethylhexyl) Adipate	Phenols
Dieldrin	Picloram
Di(2-ethylhexyl)phthalate*	Polychlorinated Biphenyls(PCBs)(as decachloro- biphenyl)*
Dinoseb	Simazine
Diquat	Styrene
Endothall	2,4,5-TP (Silvex)
Endrin	Tetrachloroethylene*
Ethylbenzene	Toluene
Ethylene Dibromide*	Toxaphene*
Heptachlor*	1,1,1-Trichloroethane
Heptachlor Epoxide*	1,1,2-Trichloroethane
Hexachlorobenzene	1,2,4-Trichlorobenzene
Hexachlorocyclopentadiene	Trichloroethylene*
Lindane (Gamma-Hexachlorocyclohexane)	Vinyl Chloride*
2,4-D	Xylenes (total)

*Denotes a carcinogen

List includes constituents listed in Section 620.410 Class I: Potable Resource Groundwater and nine constituents required by Drinking Water Compliance Assurance noted above in **Bold**.



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SCHEDULE C-II WELL COMPLETION

This form must be submitted after Schedule C-I has been approved by the Agency. Provide information from Schedule C-I for this project. This information should be taken off of the Schedule C-I Well Construction Application. Note: If you have not completed and submitted Schedule C-I to the Illinois EPA, do not fill out Schedule C-II.

Name of Community Water Supply: _____ ID# IL _____

Project Title: _____

Has application previously been submitted for a permit to drill only (C-I Well Construction)? Yes No

If Yes: Provide: permit number: _____ (If no, complete Schedule C-1 first)

permit date: _____

Local Well Number: _____

Five-digit well number

Is the subject well located as indicated on C-I Permit? Yes No

If no, explain:

I. Well Construction Details

a) Well Pump: Manufacturer: _____

Type: _____ Capacity (GPM) _____

Head Rating (ft) _____ TDH at pump discharge Depth of pump setting (ft) _____ Below top of casing

* Submit a driller's and/or correlated log of the completed well.

b) Column Pipe: Diameter (in.) _____ Length (ft) _____

c) Discharge Pipe: Diameter (in.) _____ Depth of Cover (ft) _____

Type of pipe material: _____

Type of pipe material: _____

Joint _____

Type of valve provided: _____

d) Casing Vent: Size: _____

e) Air Lines: Length (ft) _____ Extends from _____ inches

_____ (ft) below casing top

f) Identify the location of the raw water sample tap (plan sheet acceptable)

g) Describe how the casing is sealed

The well shall be disinfected in accordance with ANSI/AWWA C654. Following disinfection, a minimum of two bacteriological samples are to be taken at least 24 hours apart.

h) Is access to the well site available for use by heavy trucks and equipment? Yes No

Describe the access road:

II. Well Hydraulics and Aquifer Property Data

Method to Determine Aquifer Property Data

- Estimated (based on nearby well aquifer properties or published data)
- Measured (based on aquifer test from this well)

a. For all wells

Top of Casing Elevation: _____ Ft
Static Water Level (ft): _____ Below top of casing
Specific Capacity: _____ GPM per Ft. of drawdown
Pumping Water Level (ft.): _____ Below top of casing
Lateral Radius of Influence (ft.): _____ Horizontal measurement from center of well
Transmissivity _____ GPD per ft. of drawdown

b. *(Required for Unconfined/Unconsolidated Aquifers Only)*

Hydraulic Conductivity (k): _____ GPD per Ft.² or ft/day

Gradient: _____ ft./ft.
Gradient Compass Direction
(Clockwise from North): _____ "degrees"

Method used to estimate or determine the groundwater flow direction: _____



Illinois Environmental Protection Agency

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Division of Public Water Supplies, Permit Section Application for Operating Permit

This form may be completed online, a copy saved locally and printed before it is signed. You may also complete a printed copy manually. Submit the completed and signed form to the Illinois EPA, Bureau of Water, Permit Section at the address listed above.

Facility Name: _____ Facility ID: IL _____
 Address 1: _____ Construction Permit No.: _____ -FY _____
 Address 2: _____ Permit Type: _____
 City: _____ State: _____ Zip Code: _____ Date Permit Issued: _____
 County: _____
 Project Title: _____
 Firm Name: _____

Application Requirements (check when complete):

Project Status: Final Permit Number, Facility Number, and Facility Name identified on the Lab Report(s).
 Partial Samples analyzed by the Membrane Filter technique.
 Sample results attached to the Application. (If a new well was constructed, provide a copy of the sample results as required by Section II, Part g of the C-I application).

 Partial A, B, C, etc.

If you select Partial, you must *also* submit the following items:

Cover letter describing which sections were completed.
 General project layout plans.
 For water main projects, identify the length the Partial: _____ LF

Date of Project Completion: _____ (Provide the date construction was completed on the project or partial)

Certified Operator in Responsible Charge:

Name: _____ Classification: _____ Number: _____
 Telephone: _____

Owner of the Completed Project:

Name: _____ Title: _____ Telephone: _____
 Address: _____ City: _____ State: _____ Zip Code: _____

Owner/Authorized Personnel Signature

Date

The Owner hereby certifies that the project named and described has been constructed in accordance with plans and specifications approved by the Illinois EPA. See instructions for further information. For Verbal Approvals, please call 217-782-1724.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

***** FOR IEPA USE ONLY *****

This operating permit _____ -FY _____ issued on _____ is valid until revoked. This permit is valid only for the work completed under the Construction Permit of the same number.

Instructions for Operating Permit Application

The Operating Permit Application must be submitted for all Public Water Supply projects that required a construction permit. The Operating Permit *must* be obtained before the project is placed in service.

Fill out the top section using the corresponding Construction Permit for reference.

Facility Name is the name of the village, city or entity distributing community water supplies.

Facility ID Number can be found on the Construction Permit. This number is specific to your facility.

Address is the same as the address on the Construction Permit.

Construction Permit Number is the assigned permit number of the corresponding Construction Permit. The Operating Permit and the corresponding Construction Permit will have the same permit number.

Permit Type identifies whether the project involved is a Water Main, a Plant Improvement or Both.

Date Permit Issued is the date the Construction Permit was granted.

Date of Project Completion is the date construction was completed for the section of project you are requesting the Operating Permit for. If you are requesting an Operating Permit for a Partial project, the Date of Project Completion is the date construction was completed on that partial section. The Date of Project Completion will never be a date in the future, and must be a date *after* the issue date of the Construction Permit.

Title of Project is the same title of project listed on the corresponding Construction Permit. The Operating Permit and the Construction Permit will have the same Title of Project.

Firm Name is the engineering entity that designed the project.

Project Status will either be Final or Partial.

Final: If construction on the project is complete, you will select **Final**.

Partial: If construction on the total project is only *partially* complete, but you want to operate the completed section, you will select **Partial**. If this is the first partial, you will identify it as "Partial A", if this is the second partial, you will identify it as "Partial B" and so forth. Once the last partial section has been completed, identify it as such and also select Final in the Project Status.

The **Certified Operator in Responsible Charge** and **Owner of the Completed Project** should fill out his/her respective section. Please print your name legibly and sign where appropriate. By signing the application, the owner hereby certifies that the project named and described has been constructed in accordance with plans and specifications approved by the Illinois EPA, including specifications for bacteriological samples, and that bacteriological samples (if required) were taken under the supervision of a representative from the Public Water Supply. The owner also certifies that the project will be operated in accordance with the provisions of the Illinois Environmental Protection Act and the Rules and Regulations adopted by the Illinois Pollution Control Board pursuant to provisions of the Act.

Requests for **Verbal Approval** and questions can be addressed at (217) 782-1724.

Disinfection and bacteriological analysis must be performed for the completed project in accordance with the requirements of AWWA C651, C652, C653 or C654. For projects requiring these procedures, the sample results must be attached to the application. The construction permit number should be clearly visible on the sample results. Samples are to be taken every 1,200 feet of new water main unless otherwise approved by the Illinois EPA. Samples must be measured using the Membrane Filter technique. Colilert/ Colisure will not be accepted for new construction projects.

This form may be completed online, a copy saved locally and printed before it is signed. You may also complete a printed copy manually. Print this form on yellow paper if possible, and submit the completed form to the Illinois EPA, Bureau of Water, Permit Section at the following address:

Illinois Environmental Protection Agency
Division of Public Water Supplies, Permit Section #13
1021 North Grand Avenue East, PO Box 19276
Springfield, IL 62794-9276

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TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE F: PUBLIC WATER SUPPLIES
CHAPTER I: POLLUTION CONTROL BOARD

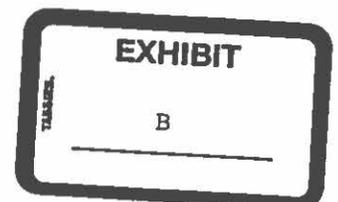
PART 602
PERMITS

SUBPART A: GENERAL PERMIT PROVISIONS

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SUBPART D: ALGICIDE PERMIT APPLICATIONS

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<u>602.510</u>	<u>Permits Under Public Health Related Emergencies</u>
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<u>602.520</u>	<u>Extension of Permit Duration</u>

Appendix A References to Former Rules

AUTHORITY: Implementing Section 17 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/17 and 27].

SOURCE: Filed with Secretary of State January 1, 1978; amended and codified at 6 Ill. Reg. 11497, effective September 14, 1982; amended at 8 Ill. Reg. 2157, effective February 7, 1984; emergency amendment at 9 Ill. Reg. 13371, effective August 16, 1985, for a maximum of 150 days; amended at 10 Ill. Reg. 7337, effective April 22, 1986; amended in R96-18 at 21 Ill. Reg.

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6562, effective May 8, 1997; amended in R03-21 at 27 Ill. Reg.18030, effective November 12, 2003; amended in _____ at _____ Ill. Reg. _____, effective _____.

SUBPART A: GENERAL PERMIT PROVISIONS

Section 602.101 Construction Permits

- a) No person shall cause or allow the construction of any new communitypublic water supply installation or cause or allow the change of or addition to any existing communitypublic water supply, without a construction permit issued by the ~~Environmental Protection Agency~~ (Agency). CommunityPublic water supply installation, change, or addition shall not include routine maintenance, service pipe connections, hydrants and valves, or replacement of equipment, pipe, and appurtenances with equivalent equipment, pipe, and appurtenances.
- b) Construction permits shall be obtained by the owner or official custodian of a community water supply
- 1) prior to beginning construction of any proposed community water supply;
 - 2) prior to all alterations, changes or additions to an existing community water supply which may affect the sanitary quality, mineral quality or adequacy of the community water supply; and
 - 3) prior to a the addition of new chemicals to the treatment process or changes in the points of applications of chemicals are made.
- c) A construction permit is not needed for normal work items such as:
- 1) installation of customer service connections to distribution system water mains;
 - 2) installation or replacement of hydrants and valves in the distribution system;
 - 3) replacement of water mains with mains of equivalent size and material in the same location;
 - 4) routine maintenance of equipment such as painting, reconditioning, servicing; or

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- 5) replacement of waterworks equipment such as chemical feeders, pumps or controls with equivalent equipment.
- d) All work performed on a communitypublic water supply shall be in accordance with accepted engineering practices.
- e) Construction permit application requirements are found in Subpart B of this Part.

(Source: Amended at ____ Ill. Reg. ____, effective ____)

Section 602.102 Operating Permits

- a) No owner or operator of a communitypublic water supply shall cause or allow the use or operation of any new communitypublic water supply, or any new addition to an existing community water supply, for which a construction permit ~~Construction Permit~~ is required under this Part, without an operating permit ~~Operating Permit~~ issued by the Agency.
- b) The operating permit application shall be filed with the Agency when construction is complete.
- c) The operating permit shall be obtained before the project is placed in service.
- d) Operating permit application requirements are found in Subpart C of this Part.

(Source: Amended at ____ Ill. Reg. ____, effective ____)

Section 602.103 Aquatic Pesticide and Algicide Permits

- a) Algicide Permit.
 - 1) No algicide, copper sulfate, copper sulfate based products, and copper sulfate chemical aids shall be applied to any stream, reservoir, lake, pond, or other body of water used as a communitypublic water supply source without an Algicide Permit issued by the Agency.
 - 2) Any algicide permit issued under this Part shall exempt the permittee from obtaining an aquatic pesticide permit as provided in Section 602.103 of this Part.

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- 3) Permits issued under this Section will be valid for public water supply sources only.
 - 4) Algicide permit application requirements are found in Subpart D of this Part.
- b) Aquatic Pesticide Permit.
- 1) No pesticide, other than an algicide, shall be applied to any stream, reservoir, lake, pond or other body of water used as a community water supply source without an Aquatic Pesticide Permit issued by the Agency, where the application of the pesticide will have an effect on public or food processing water supplies.
 - A) Effect shall be defined as any measurable concentration of the pesticide in the intake water of the public or food processing water supplies.
 - B) Application for an aquatic pesticide permit shall be made whenever an aquatic pesticide is to be applied within 20 miles upstream of a public or food processing water supply intake. The 20 mile upstream distance shall be measured as follows:
 - i) for streams, the distance shall be measured from the water supply intake to the downstream edge of the area treated;
 - ii) for impoundments, the distance shall be measured as the straight line distance over water from the intake to the nearest edge of the area treated;
 - iii) when the shape of the impoundment will not allow a straight line measurement to be made, the shortest distance, over water, between the intake and the area is to be used;
 - iv) for streams tributary to the impoundments, the distance shall be the sum of the stream distance plus the shortest line distance described in (2) and (3) above.

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C) The person having the aquatic pesticide applied shall apply for the permit.

2) Aquatic pesticide permit application requirements are found in Subpart E of this Part.

(Source: Amended at ____ Ill. Reg. _____, effective _____)

Section 602.104 Emergency Permits

a) Whenever emergency conditions require immediate action, the Agency may issue construction and operating permits by telephone to the owner, ~~operator,~~ or Responsible Operator in Charge~~person in responsible charge~~, with whatever special conditions the Agency deems to be necessary for the proper safeguarding of the health of the water consumers.

1) Emergency conditions are hazards or threats to public health caused by:

A) accidents;

B) equipment failures;

C) human error; or

D) natural disasters.

2) As-built plans and specifications covering the work performed under the ~~emergency telephone permit~~ and any information required by special conditions in the emergency permit must be submitted to the Agency within 30 days of issuance of the emergency permit~~as soon as reasonably possible.~~

3)2) Modifications required by the Agency after review of the submission shall be made within 90 days unless otherwise stated by the Agency~~promptly.~~

b) The Agency shall confirm, in writing, within ten days of issuance, its granting of an emergency ~~construction~~ permit. Said confirmation ~~will~~may be conditioned upon the receipt and approval, by the Agency, of as-built plans and specifications.

c) The Agency can be contacted by calling:

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- 1) Bureau of Water, Division of Public Water Supplies Permit Section; or
 - 2) after normal business hours, the State emergency number, (217) 782-3637 (STA-EMER), or 1-800-782-7860.
- d) Each applicant for an emergency permit to install or extend a water main shall submit the appropriate fee, as specified in Section 16.1 of the Act, to the Agency within 10 calendar days from the date of issuance of the emergency construction permit. [415 ILCS 5/16.1]

(Source: Amended at ____ Ill. Reg. ____, effective ____)

Section 602.105 Standards for Issuance

- a) Construction or Operating Permits:
- 1) The Agency shall not grant any construction or operating permit required by this Part unless the applicant submits adequate proof that the ~~community~~ public water supply will be constructed, modified or operated so as not to cause a violation of the ~~Environmental Protection Act [415 ILCS 5]~~ or of 35 Illinois Administrative Code Subtitle F.
 - 2) ~~b)~~ The Agency shall not grant any construction or operating permit required by this Part unless the applicant submits adequate proof that the ~~community~~ public water supply facility conforms to the following design criteria. In case the documents listed below conflict, the design criteria listed in subsection (a)(2)(A) shall be complied with.
 - A) Criteria promulgated by the Agency under Section 39(a) of the Act or Section 602.115 of this Part;
 - B) Recommended Standards for Water Works incorporated by reference at 35 Ill. Adm. Code 601.115;
 - C) American Water Works Association (AWWA) Standards Incorporated by reference at 35 Ill. Adm. Code 601.115; or
 - D) ~~or is based on such other~~ Other design criteria which the applicant proves will produce consistently satisfactory results.

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- 3)e) The Agency shall not grant any construction permit required by this Part unless the applicant submits proof that any plan and specification documents required by this Section and Subpart B of this Part Section 602.108 have been prepared by a person qualified under the Illinois Architecture Practice Act [225 ILCS 305], the Illinois Professional Engineering Practice Act [225 ILCS 325], the Illinois Structural Engineering Licensing Act [225 ILCS 340], or any required combination thereof.
- 4) The Agency shall not issue a construction permit unless the community water supply has filed a notification of ownership pursuant to 35 Ill. Adm. Code 603.101.
- 5) The existence of a violation of the Act or a regulation will not prevent the issuance of a construction permit if:
- A) the applicant has been granted a variance from the regulation by the Board;
 - B) the permit is for construction or installation of equipment to alleviate or correct a violation; or
 - C) the permit application is for a water main extension to serve existing residences or commercial facilities where the permit applicant can show that those residences or commercial facilities are being served by a source of water of a quality or quantity which violates the primary drinking water standards of 35 Ill. Adm. Code 611.
- b) Algicide or Aquatic Pesticide Permit:
- The Agency shall not grant any algicide or pesticide permit required by this Part unless the applicant submits adequate proof that humans and animals will be protected during the time toxic pesticide concentrations exist in the water.
- d) Until December 8, 2003, the Agency shall not deny for the following reasons any construction or operating permit required by this Part:
- 1) the radium-226 level is less than or equal to 20 pCi/L;
 - 2) the radium-228 level is less than or equal to 20 pCi/L; or

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- 3) ~~the gross alpha particle activity level minus the radium-226 level is less than or equal to 15 pCi/L.~~
- e) ~~From December 8, 2003, until December 8, 2009, the Agency may issue a construction or operating permit to a public water supply that exceeds the maximum contaminant level (MCL) for combined radium (radium-226 and radium-228) of 5 pCi/L, the MCL for gross alpha particle activity of 15 pCi/L, or the MCL for uranium of 30 µg/L (35 Ill. Adm. Code 611.330) if the supply is bound to comply with the MCL pursuant to a specific schedule under:~~
 - 1) ~~A Compliance Commitment Agreement executed pursuant to Section 31 of the Act [415 ILCS 5/31]; or~~
 - 2) ~~An enforceable court order after referral by the Agency.~~

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.106 Restricted Status and Critical Review

- a) Restricted status shall be defined as the Agency determination, pursuant to Section 39(a) of the Act and Section 602.105, that a community public water supply facility may no longer be issued a construction permit without causing a violation of the Act or 35 Ill. Adm. Code: Subtitle F this Chapter. Except as specified in Section 602.105(a)(5) of this Part, the Agency shall not issue a permit for water main extension construction where the water main would extend an existing violation of the Act, or 35 Ill. Adm. Code: Subtitle F. When the Agency cannot issue a construction permit to a community water supply because such issuance would extend an existing violation of the Act or Subtitle F of this Title, the Agency shall place the community water supply on restricted status.
- b) The Agency shall publish in the Environmental Register and make available to the public at intervals of not more than ~~three~~ six months, a comprehensive and up-to-date list of community water supplies subject to restrictive status and the reasons why. This list will be entitled the "Restricted Status List."
- c) The Agency shall notify the owners or official custodians and the Responsible Operator in Charge of community water supplies when the community water supply is initially placed on restricted status by the Agency.

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- d) The Agency shall also publish at the same frequency as the Restricted Status List, a list of those community water supplies which Agency records indicate are approaching the point of violating any of the standards listed in subsection (a) of this Section. This list will be entitled the "Critical Review List".
- e) Both the Restricted Status List and the Critical Review List shall include a statement of the potential or existing violation of the Act or 35 Ill. Adm. Code: Subtitle F that caused the community water supply's inclusion on the list.
- f) Owners or official custodians of community water supplies which have been placed on Restricted Status or Critical Review shall notify any person requesting construction of a water main extension of this status.

~~Until December 8, 2003, the Agency shall not place public water supplies on restricted status when:~~

- ~~1) the radium 226 level is less than or equal to 20 pCi/L;~~
- ~~2) the radium 228 level is less than or equal to 20 pCi/L; or~~
- ~~3) the gross alpha particle activity level minus the radium 226 level is less than or equal to 15 pCi/L.~~

- e) ~~From December 8, 2003, until December 8, 2009, the Agency shall not place a public water supply on restricted status for exceeding the maximum contaminant level (MCL) for combined radium (radium 226 and radium 228) of 5 pCi/L, the MCL for gross alpha particle activity of 15 pCi/L, or the MCL for uranium of 30 µg/L (35 Ill. Adm. Code 611.330) if the supply is bound to comply with the MCL pursuant to a specific schedule under:~~

- ~~1) A Compliance Commitment Agreement executed pursuant to Section 31 of the Act [415 ILCS 5/31]; or~~
- ~~2) An enforceable court order after referral by the Agency.~~

(Source: Amended at ____ Ill. Reg. ____, effective _____)

Section 602.107 Signatory Requirement for Permit Applications

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All permit applications shall be signed by the owner or official custodian of the community~~public~~ water supply, or by the owner's duly authorized agent, and shall be accompanied by evidence of authority to sign the application.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.108 Construction Permit Applications (Renumbered)

(Source: Section 602.108 renumbered to Section 602.205 and amended at _____ Ill. Reg. _____, effective _____)

Section 602.109 Operating Permit Applications (Renumbered)

(Source: Section 602.109 renumbered to Section 602.305 and amended at _____ Ill. Reg. _____, effective _____)

Section 602.110 Algicide Permit Applications (Renumbered)

(Source: Section 602.110 renumbered to Section 602.400 and amended at _____ Ill. Reg. _____, effective _____)

Section 602.111 Application Forms and Additional Information

The Agency may prescribe the form in which all information required under this Part shall be submitted and ~~require~~~~may adopt procedures requiring~~ such additional information as is necessary to determine whether the community~~public~~ water supply system will meet the requirements of the Act and this Chapter.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.112 Filing and Final Action by Agency on Permit Applications

- a) For permits without a fee under Section 16.1 of the Act:
 - 1) An application for a permit shall be deemed to be filed on the date of initial receipt by the Agency of the application documents.
 - 2) Except for emergency permits, applications for construction permits shall be submitted at least 90 days before the expected start of construction.

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- 3)b) If the Agency fails to take final action, by granting or denying the permit as requested or with conditions, within ninety days from the filing of the ~~completed~~ application, the applicant may deem the permit granted for a period of one year, commencing on the ninety-first day after the application was filed.
- 4)e) Any applicant for a permit may waive the requirement that the Agency must take final action within ninety days from the filing of the application.
- b) For permits with a fee under Section 16.1 of the Act:
- 1) An application for a permit shall be deemed to be filed on the date the Agency has received both the application documents and the required fee. The Agency shall send the applicant written notification of receipt of the complete application.
 - 2) Except for emergency construction permits, applications for construction permits shall be submitted at least 45 days before the expected start of construction.
 - 3) The Agency will deny construction permit applications that do not contain the entire fee.
 - 4) The Agency shall take final action by granting or denying permits within 45 days of the filing of a application and the payment of the required fee. If the Agency fails to take final action within 45 days of filing the application and the payment required fee, the applicant may deem the permit issued.
- c) The Agency shall maintain a progress record of all permit applications including interim and final action dates. This information is available to the applicant upon request.
- d) The Agency shall send all notices of final action by U.S. mail. The Agency shall be deemed to have taken final action on the date that the notice is mailed.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.113 Duration

- a) Construction Permits –

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- 1) Construction permits for community water supply facilities expire one year from the date of issuance unless construction has started. shall be valid for the start of construction within one year from the date of issuance and If construction does not commence within one year from the date of issuance, the permit may be renewed for additional one year periods at the discretion of the Agency.
- 2) After construction commences, the permit expires five years from the date of issuance or renewal, whichever is later. Construction, once started, may continue for four years without permit renewal and Thereafter, the permit may be renewed for periods specified by the Agency at its discretion for each permit renewal.
- b) Operating permits~~Operation Permits—Operation Permits~~ shall be valid until revoked unless otherwise stated in the permit.
- c) Algicide Permits—Algicide permits shall be issued for fixed terms not to exceed five years~~be valid for the period stated in the permit, but in no case longer than five years.~~
- d) Aquatic pesticide permits shall be valid for the application of pesticides described in the permit application not to exceed six months.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.114 Conditions

In addition to specific conditions authorized under this Part, the Agency may impose such conditions in a permit ~~as may be necessary~~ to accomplish the purposes of the Act and thatas are consistent~~not inconsistent~~ with regulations promulgated by the Illinois Pollution Control Board (Board).

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.115 Design, Operation, and Maintenance Criteria

- a) The Agency may adopt criteria in rules for the design, operation, and maintenance of community~~public~~ water supply facilities as necessary to insure safe, adequate, and clean water. These criteria shall be revised from time to time to reflect current engineering judgment and advances in the state of the art.

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- b) Before adopting new criteria or making substantive changes to any of its rules for community~~public~~ water supplies, the Agency shall comply with the provisions of the Administrative Procedure Act [5 ILCS 100].

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.116 Requirement for As-Built Plans

If any portion of~~Whenever~~ a community water supply has been constructed without a construction permit as required by Section 602.101 of this Part or an emergency permit pursuant to Section 602.104, the community water supply must submit to the Agency ~~may require~~ submission of as-built plans, specifications and a construction permit application. As-built plans and specifications must be prepared by a qualified person as described in Section 602.105(a)(3)~~602.105(e)~~. All plans, specifications or construction permit applications submitted to the Agency under this Section shall be clearly marked "as-built". Any deficiencies requiring correction as determined by the Agency must be corrected within a time limit set by the Agency. Submission of as-built plans and the correction of any deficiencies~~This~~ does not relieve the owner or official custodian from any liability for construction of the supply without a permit.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.117 Existence of Permit No Defense

The existence of a permit under this Chapter shall not constitute a defense to a violation of the Act or any Board or Agency rule except for the requirements to secure construction, operating, algicide, aquatic pesticide or emergency permits.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.118 Appeals of Final Agency Action on a Permit Application ~~from Conditions~~

- a) If the Agency denies a permit required under this Part, the applicant may petition the Board to appeal the Agency's final decision pursuant to Section 40 of the Act.
- b) An applicant may consider any condition imposed by the Agency in a permit issued pursuant to this Part as a refusal by the Agency to grant a permit, which shall entitle the applicant to appeal the Agency's decision to the Board pursuant to Section 40 of the Act.

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- c) All appeals shall be filed with the Board within 35 days of the day the applicant is served with the Agency's final decision.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.119 Revocations

Violation of any permit conditions or failure to comply with any rule or regulation of 35 Ill. Adm. Code Subtitle F~~this Chapter~~ shall be grounds for enforcement actions as provided in the Act, including revocation of permit. Such enforcement actions shall be sought by filing a complaint with the Board pursuant to Title VIII of the Act.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.120 Limitations

Issuance of a construction permit under this Part does not relieve the applicant of the obligation to obtain other permits required from other State agencies, other divisions of this Agency or local governing bodies. Any permit issued under this Part shall not be considered to be valid unless and until all applicable permits from State agencies, including but not limited to those listed below, have been applied for:

<u>AGENCY</u>	<u>PERMIT DESCRIPTION</u>
<u>Illinois Commerce Commission</u>	<u>Certificate of Convenience and Necessity</u>
<u>Dept. of Natural Resources Office of Water Resources</u>	<u>Changes to Existing Waterways</u>

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.125 Right of Inspection

The permittee shall allow any agent duly authorized by the Agency upon presentation of credentials, and in accordance with constitutional limitations, to:

- a) enter at reasonable times the permittee's premises where treatment or distribution facilities are located or where any activity is to be conducted pursuant to a permit;

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- b) have access to and copy at reasonable times any records required to be kept under the terms and conditions of a permit;
- c) inspect at reasonable times including during any hours of operation:
 - 1) equipment constructed or operated under the permit;
 - 2) equipment or monitoring methodology; or
 - 3) equipment required to be kept, used, operated, calibrated and maintained under the permit;
- d) obtain and remove at reasonable times samples of any raw or finished water, discharge or emission of pollutants;
- e) enter at reasonable times to use any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring or recording any raw or finished water, activity, discharge or emission authorized by a permit.

(Source: Added at _____ Ill. Reg. _____, effective _____)

SUBPART B: CONSTRUCTION PERMIT APPLICATIONS

Section 602.200 Preliminary Plans

- a) Preliminary plans may be submitted prior to application to expedite review of subsequent construction permit application plan documents. No approval for construction shall be issued until the completed application, plans and specifications have been submitted.
- b) If preliminary plans are submitted, the documents shall include a description of alternate solutions, a discussion of the alternatives and reasons for selecting the alternative recommended.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 602.205602-108 Construction Permit Applications

All applications for any construction permit required under this Chapter shall contain, where appropriate, the following information and documents:

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- a) General information, including but not limited to:
 - 1) name of the community water supply;
 - 2) community water supply identification number;
 - 3) the name and mailing address of the owner or official custodian of the community water supply; and
 - 4) name, scope and location of the project;
- b) Engineer's report, as specified in Section 602.210 of this Part;
- c) A summary of the design criteria basis as specified in Section 602.215 of this Part;
- d) Specifications as specified in Section 602.620 of this Part ~~Operation~~ requirements;
- ee) Plans as specified in Sections 602.225 of this Part ~~General layout;~~
- d) ~~Detailed plans;~~
- e) ~~Specifications;~~
- f) Specific information for the type of construction, as follows:
 - 1) For source construction, information specified in Section 602.240 of this Part;
 - 2) For the construction of treatment facilities, information specified in Section 602.245 of this Part;
 - 3) For the construction of storage facilities, information specified in Section 602.250 of this Part;
 - 4) For the construction of water mains, information specified in Section 602.255 of this Part.

~~A professional seal to satisfy Section 602.105(a)(3)602.105 (e) requirements;~~

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- g) Water purchase contracts between water supplies and/or inter-municipal agreements, where applicable;
- h) Evaluation of technical, managerial, and financial capacity as specified in Section 15 of the Act and 35 Ill. Adm. Code Subtitle F;
- i)g) Certification by each person signing the application that the information in the application is complete and accurate, and that the text of the application has not been changed from the Agency's official construction permit application form; and
- j)h) Any other information required by the Agency for proper consideration of the permit.

(Source: Section 602.205 renumbered from Section 602.108 and amended at ____ Ill. Reg. _____, effective _____)

Section 602.210 Submission of Applications, Plans and Specifications

- a) Two copies of the completed application , and any required plans, specifications and supplemental schedules shall be submitted to Agency for review and approval.
- b) All permit applications shall be mailed or delivered to the appropriate address designated by the Agency.
- c) The Agency shall acknowledge in writing receipt of submitted documents.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 602.215 Alterations

- a) Any proposed deviations from plans and specifications previously approved by the Agency shall receive a supplemental permit from the Agency before such changes are made. Approval by the Agency shall be in accordance with Section 602.105 and this Subpart. Changes which require a supplemental permit include, but are not limited to, those which affect the location, sanitary and/or mineral quality, capacity, hydraulic conditions, operating units or functioning of water purification units.

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- b) Revised plans or specifications shall be submitted to and approved by the Agency before any construction which will be affected by such changes has been started.
- c) Structural revisions for minor changes which will not affect the location, capacity, hydraulic conditions, water purification processes or the sanitary or mineral quality of the water to be delivered will be allowed without prior approval.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 602.220 Engineer's Report

Upon request from the Agency, an applicant for a construction permit shall submit an Engineer's Report. Types of construction projects where the Agency will request an Engineer's Report include but are not limited to the construction of a new community water supply, a new source location, a new water treatment plant other than a facility which utilizes chemical feeding only, or a project funded by a low interest loan obtained from the Agency. An Engineer's Report submitted pursuant to this section shall contain the following information.

- a) General information, including:
 - 1) a description of existing waterworks;
 - 2) a description of sewerage facilities;
 - 3) a description of the municipality or area to be served; and
 - 4) the name and mailing address of the owner or official custodian.
- b) Extent of community water supply system, including:
 - 1) the area to be served with water and any provisions for extending the community water supply system;
 - 2) additional areas to be served and an appraisal of the future requirements for service; and
 - 3) present and prospective industrial and commercial water supply needs which are likely to be required in the near future.
- c) Water consumption data, including:

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- 1) population trends as indicated by available records;
 - 2) estimated number of consumers who will be served by the proposed or expanded water supply system 25 years in the future;
 - 3) present and future water consumption values used as the basis of design;
and
 - 4) present and estimated future yield of the water sources for a community water supply.
- d) A justification for the project where two or more solutions exist for providing community water supply facilities, each of which is feasible and practicable. The Engineer's Report shall discuss the alternatives and provide reasons for selecting the one recommended, including financial considerations, operational requirements, operator qualifications, reliability, and water quality considerations.
- e) Sources of water supply. The Engineer's Report shall describe the proposed source or sources of water supply to be developed, the reasons for their selection, and provide information as follows:
- 1) For surface water sources:
 - A) hydrological data, stream flow and weather records;
 - B) safe yield, including all factors that may affect it;
 - C) maximum flood flow, together with approval for safety features of the spillway and dam from the appropriate reviewing authority;
 - D) description of the watershed, noting any existing or potential sources of contamination (such as highways, railroads, chemical facilities, land/water use activities, etc.) which may affect water quality;
 - E) summarized quality of the raw water with special reference to fluctuations in quality, changing meteorological conditions, etc.;

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- F) source water protection issues or measures, including erosion and siltation control structures, that need to be considered or implemented.
- 2) For groundwater sources:
 - A) sites considered;
 - B) advantages of the site selected;
 - C) elevations with respect to surroundings;
 - D) probable character of formations through which the source is to be developed;
 - E) geologic conditions affecting the site, such as anticipated interference between proposed and existing wells;
 - F) summary of source exploration, test well depth, and method of construction; placement of liners or screen; test pumping rates and their duration; water levels and specific yield; water quality;
 - G) sources of possible contamination such as sewers and sewage treatment/disposal facilities, highways, railroads, landfills, outcroppings of consolidated water bearing formations, chemical facilities, waste disposal wells, agricultural uses, etc;
 - H) wellhead protection measures being considered
- f) Project sites, including:
 - 1) a discussion of the various sites considered and advantages of the recommended ones;
 - 2) the proximity of residences, industries, and other establishments;
 - 3) any potential sources of pollution that may influence the quality of the supply or interfere with effective operation of the water works system, such as sewage absorption systems, septic tanks, privies, cesspools, sink holes, sanitary landfills, refuse and garbage dumps, etc.

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- g) Proposed Treatment Processes. The Engineer's Report shall describe all proposed treatment processes for providing the quality desired from the specific raw water under consideration and any available data proving the capability of providing the treatment.
- h) Automation. The Engineer's Report shall provide supporting data justifying automatic equipment, including the servicing and operator training to be provided and must provide for manual override for any automatic controls.
- i) Power. The Engineer's Report shall include the following power description:
- 1) the main source of power;
 - 2) dedicated standby power capable of providing power to operate the community water supply's water treatment and distribution facilities during power outages; and
 - 3) outside emergency power sources which are available.
- j) Soil, ground water conditions and foundation problems, including:
- 1) the character of the soil through which water mains are to be laid;
 - 2) foundation conditions prevailing at sites of proposed structures; and
 - 3) the approximate elevation of ground water in relation to sub-surface structures.
- k) Flow requirements, including a hydraulic analysis based on flow demands and pressure requirements
- BOARD NOTE: fire flows, when fire protection is provided, should meet the recommendations of the Illinois Insurance Services Office or other similar agency for the service area involved.
- l) Water Plant Wastes: When waste treatment facilities are necessary, those facilities shall be included as part of the engineering plans and specifications, and the permit application shall include the following:

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- 1) An estimate of the character and volume of the waste which will be generated (including contaminant concentration in milligrams per liter) and its proposed disposition.
- 2) type of waste treatment, discharge location and frequency of discharge.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 602.225 Design Criteria

A summary of complete design criteria shall be submitted for the proposed project containing, where applicable, the following:

- a) long term dependable yield of the source of supply;
- b) reservoir surface area, volume, and a volume versus depth curve;
- c) area of watershed;
- d) estimated average and maximum day water demands for the design period;
- e) number of proposed services;
- f) fire fighting requirements;
- g) flash mix, flocculation and settling basin capacities;
- h) retention times;
- i) unit loadings;
- j) filter area and the proposed filtration rate;
- k) backwash rate;
- l) feeder capacities and ranges;
- m) minimum and maximum chemical application rates.

(Source: Added at _____ Ill. Reg. _____, effective _____)

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Section 602.230 Specifications

- a) Complete detailed specifications shall be supplied for all community water supply construction.
- b) The specifications shall have a professional seal and signature to satisfy Section 602.105(a)(3) of this Part.
- c) The specifications shall include a program for keeping existing water works facilities in operation during construction of additional facilities so as to minimize interruption of service.
- c) Water main standard specifications which have been adopted by a community water supply or a consulting engineer may be submitted for review by the Agency. If approved standard specifications are kept on file with the Agency, the community water supply need not resubmit the specifications unless changes occur. These standard specifications shall equal or exceed the requirements of Section 602.105 of this Part.

(Source: Added at _____ Ill. Reg. _____, effective _____.)

Section 602.235 Plans

Unless otherwise specified by the Agency, plans submitted to the Agency must provide the following:

- a) General Layout
 - 1) a suitable title;
 - 2) name of owner of the community water supply;
 - 3) area or institution to be served;
 - 4) scale;
 - 5) north point;
 - 6) datum used;
 - 7) boundaries of the municipality or area to be served;

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- 8) date, name and address of the designing engineer;
 - 9) professional engineer's seal and signature to satisfy Section 602.105(a)(3);
 - 10) location and size of existing water mains;
 - 11) location and nature of existing water works structures and appurtenances affecting the proposed construction, noted on one sheet; and
 - 12) location of any petroleum storage tanks within 400 feet of the proposed construction.
- b) Details as specified in Section 620.240 through Section 602.255 of this Part.
- c) The size of plans submitted to the Agency shall not exceed 24 inches by 36 inches.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 602.240 Source Construction Applications

Construction permit applications for the construction of a new or the modification of an existing well or surface water intake must include the information specified by this section.

- a) Well construction permit applications shall specify the following:
- 1) the latitude and longitude of the well location;
 - 2) the location and nature of all potential routes, potential primary sources, and potential secondary sources of contamination within 2,500 feet of the well location;
 - 3) the maximum level of flood as determined by the flood of record waters and height of well casing for sites subject to flooding;
 - 4) a general aquifer description;
 - 5) the total well depth;

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- 6) the well casing diameter, material, depth, weight, height above ground, and thickness;
 - 7) the grout type, thickness, and depth;
 - 8) the screen diameter, material, slot size, and length, if applicable;
 - 9) temporary capping and security measures during well construction;
 - 10) proposed pump test procedures;
 - 11) sampling procedures, if necessary, for wells that may be subject to surface water influences;
 - 12) well pump manufacturer, type, design capacity, head rating, and depth of pump setting;
 - 13) column pipe diameter, length, material, and joint;
 - 14) discharge pipe diameter, depth of cover, material, and valving;
 - 15) casing vent diameter;
 - 16) air line length;
 - 17) location of the raw water sample tap;
 - 18) a description of how the top of the well casing is sealed;
 - 19) a description of access to the well site; and
 - 20) well hydraulics and aquifer property data.
- b) The following information must be submitted on plans for well construction permit applications:
- 1) the well location and 2,500 foot radius showing the location of potential routes, potential primary sources, and potential secondary sources of contamination;

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- 2) the well location and location of the sources of pollution listed in Table A of 35 Ill. Adm. Code 653.118;
 - 3) a cross-section of the well showing finished grade, natural ground surface, vent, casing, column pipe, screen, well depth, pump depth, grout, gravel pack, and discharge piping;
 - 4) the discharge piping including, pressure gauge, meter, sample tap, check valve, shut-off valve and vacuum/air release valve, if applicable;
 - 5) well house construction, if provided;
 - 6) electrical junction box;
 - 7) the location of any observation wells.
- c) The following information must be submitted on plans for surface water intake construction permit applications
- 1) plan and profile views of the intake structure showing the location, elevation of intake ports, fish screens, valves, piping, and pumps, if applicable;
 - 2) location of inspection manholes, if applicable;
 - 3) location of chemical treatment, if applicable;
 - 4) location of the sources of pollution listed in Table A of 35 Ill. Adm. Code 653.118;

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 602.245 Treatment Construction Applications

The following information must be submitted on plans for the construction of treatment facilities.

- a) all appurtenances, specific structures or equipment having any connection with the planned water treatment improvements. Detailed plans shall be drawn to a scale which will describe the proposed structures and equipment. Dimensions, elevations, and explanatory notes shall be shown.

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- b) detailed hydraulic profiles of water flowing through treatment systems;
- c) schematic plumbing and electrical designs for all structures and equipment;
- d) location of the sources of pollution listed in Table A of 35 Ill. Adm. Code 653.118;
- e) the maximum flood level for sites subject to flooding; and
- b) security fencing;

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 602.250 Storage Construction Applications

The following information must be submitted on plans for the construction of storage facilities.

- a) storage capacity;
- b) plan and profile views showing the location, elevation, piping, access hatches, vents, overflows, safety appurtenances, and sample taps;
- c) for below ground or partially below ground storage tanks, location of the sources of pollution listed in Table A of 35 Ill. Adm. Code 653.118;
- d) security fencing;
- e) baffling arrangement, if applicable;
- f) the maximum flood level for sites subject to flooding;
- g) for hydropneumatic tanks, the bypass piping, access manhole, drain, sight glass, pressure gauge, pressure relief valve, air compressor, and housing;
- h) mixing systems; and
- i) ability to drain a storage tank without causing the pressure in the distribution system to drop below 20 psi.

(Source: Added at ____ Ill. Reg. _____, effective _____)

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Section 602.255 Water Main Construction Applications

- a) Water main construction permit applications shall specify the following:
- 1) the existing population served by the present supply, and the population to be served by the water main extension;
 - 2) the average daily pumpage for the community water supply on annual basis;
 - 3) the maximum daily pumpage;
 - 4) the capacity of the community water supply;
 - 5) capacity of the raw water source;
 - 6) capacity of proposed water main;
 - 7) normal expected operating pressure on proposed water main;
 - 8) minimum expected operating pressure on proposed water main;
 - 9) pressure at point of connect at present maximum demand;
 - 10) calculated pressure at point of connection under maximum demand after installation of water main;
 - 11) the size of the pipe and total feet of the water main;
 - 12) pipe material and type of joint;
 - 13) the proposed depth below ground surface of the water main;
 - 14) sewer and water separation:
 - A) an indication of whether minimum horizontal and vertical separation requirements in Section 653.119 of this Part have been met; and
 - B) an explanation of other measures taken to protect the water main if the separation requirements are not met;

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- 15) a disinfection plan which details the chemical to be used, initial disinfectant concentration, final disinfectant concentration and retention time in hours; and
 - 16) a water sampling plan to meet the requirements of Section 602.310 of this Part.
- b) The following information must be submitted on plans with water main construction permit applications
- 1) border lines of the municipality, water district or area to be served;
 - 2) the size, length and identity of proposed water mains and water system structures;
 - 3) elevation of water mains and other water system structures;
 - 4) location of existing or proposed streets;
 - 5) location of storm, sanitary, combined and house sewers, septic tanks, disposal fields and cesspools;
 - 6) location of pipeline or other source containing hydrocarbons;
 - 7) the sources of pollution listed in Table A of 35 Ill. Adm. Code 653.118. The plans shall indicate the distances between community water supply structures and the sources of pollution.
 - 8) stream crossings with elevations of the stream bed shown;
 - A) the normal, extreme high and extreme low water levels of the stream.
 - B) profiles shall have a horizontal scale of not more than 100 feet to the inch and a vertical scale of not more than ten feet to the inch; both scales shall be clearly shown.
 - 9) all appurtenances, specific structures or equipment having any connection with planned water mains and water system structures. Detailed plans

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shall be drawn to a scale which will describe the proposed structures and equipment. Dimensions, elevations and explanatory notes shall be shown.

(Source: Added at ____ Ill. Reg. _____, effective _____)

SUBPART C: OPERATING PERMIT APPLICATIONS

Section 602.305602.109 Operating Permit Applications

All applications for operating permits shall contain:

- a) The name and identification certificate number of the certified operator in responsible operator in charge pursuant to 35 Ill. Adm. Code 603. on the operational staff of the public water supply or the name and registration number of the registered person in responsible charge for supplies which are exempt from the requirement for a certified operator; and
- b) the community water supply's name, address, identification number and project name the name and location of the public water supply;
- c) construction permit number, type of construction permit, and the date the construction permit was issued the construction permit number under which the public water supply was constructed; and
- d) an explanation of the status of the construction project. If the project is only partially completed, the applicant must comply with Section 602.320; and
- e) any other information required by the Agency for proper consideration of the permit, including, but not limited, to the submission of the water sample results pursuant to Section 602.310.

(SOURCE: Section 602.305 renumbered from Section 602.109 and amended at ____ Ill. Reg. _____, effective _____)

Section 602.310 Projects Requiring Disinfection

- a) Satisfactory disinfection as specified in this Section must be demonstrated before an operating permit will be issued for completed construction projects where facilities produce, contain, treat or carry water which must be bacteriologically safe. This includes but is not limited to water mains, filters, finished water storage tanks and wells.

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- b) Disinfection of a filter with granular activated carbon (GAC) shall be done prior to adding the GAC. Disinfection of an ion exchange unit shall be done prior to adding a resin with a low chlorine tolerance. Disinfection of a membrane unit shall be done prior to adding membrane material with a low chlorine tolerance. Care should be taken when handling the GAC, resin or membrane to keep the material as clean as possible.
- c) Except as specified in subsection (d) of this Section, satisfactory disinfection is demonstrated when two consecutive water sample sets collected from the completed project at least 24 hours apart indicate no bacterial growths as measured by the membrane filter technique or no tubes positive as measured by the presumptive test, fermentation tube method. A sample set consists of the following:
- 1) For water mains, representative water samples must be collected from every 1,200 feet of new main along each branch, and from the end of the line. The Agency may approve a different sampling plan on a site-specific basis.
 - 2) For water treatment plants, representative water samples must be collected from each aerator, detention tank, filter, ion exchange unit, clearwell, and other treatment components, and from the entry point to the distribution system.
- d) For water main construction projects at existing community water supplies practicing chlorination in accordance with 35 Ill. Adm. Code 611.240, satisfactory disinfection is demonstrated when
- 1) one water sample set from the completed project collected in accordance with subsection (c)(1) of this section indicate no bacterial growths as measured by the membrane filter technique or no tubes positive as measured by the presumptive test, fermentation tube method; and
 - 2) Adequate chlorine residual is present at the point of connection. Adequate chlorine residuals exist in a distribution system when there is a minimum of 0.2 mg/l free chlorine residual for water supplies practicing free chlorination or 0.5 mg/l combined chlorine residual for water supplies practicing combined chlorination.

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- e) If the analyses pursuant to subsection (d) this Section indicate the presence of bacterial growth, the community water supply must do the following to demonstrate satisfactory disinfection:
- 1) resample at the sampling point indicating contamination and every sampling point downstream of the point indicating contamination.
 - 2) submit a general layout sheet of the project indicating the location of all water mains to be operating.
 - 3) submit evidence to the Agency that two consecutive water sample sets collected as specified in subsection (e)(1) of this section indicated no bacterial growths as measured by the membrane filter technique or no tube positive as measured by the presumptive test, fermentation tube method.
- f) Analyses conducted pursuant to this Section shall be performed by a certified laboratory.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 602.315 Projects Not Requiring Disinfection

Disinfection is not required for projects involving installation of equipment not in contact with finished water, which includes but is not limited to chemical feeders, coagulation basins and raw surface water transmission lines.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 602.320 Partial Operating Permits

- a) If all phases of a construction project will not be completed at one time, a partial operating permit shall be issued pursuant to 35 Ill. Adm. Code 602.105 upon receipt of:
- 1) a cover letter describing which sections of the project are completed;
 - 2) a general layout plan sheet of the project indicating the location of all water mains to be operated;
 - 3) a completed and signed operating permit application; and

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4) bacteriological analyses results from water samples collected from the completed section of the project. The analyses shall verify satisfactory disinfection in accordance with Section 602.310.

b) Additional operating permits shall be obtained as other sections of the project are completed.

(Source: Added at _____ Ill. Reg. _____, effective _____)

SUBPART D: ALGICIDE PERMIT APPLICATIONS

Section 602.405602.110 Algicide Permit Applications

- a) All applications for algicide permits shall contain, at a minimum:
- a)1) the name and identification certificate number of the responsible operator in charge certified operator supervising the application of the algicide;
 - b)2) a statement describing the extent of the algae problem, history of any past algae problems, and past algicide treatments, and a description of any fish kills which have resulted from treatments in the past; and
 - c) description of any adverse effects algae has had on the various treatment processes and on the finished water quality;
 - d) a description of any fish kills that might have resulted from past use of copper sulfate, copper sulfate based products, and copper sulfate chemical aids;
 - e) location and volume of the body of water;
 - f) name of source stream (if any);
 - g) amount of copper sulfate to be used for each treatment;
 - h) time interval between treatments;
 - i) a copy of the applicant's authorization to discharge under an NPDES permit if the algicide is applied to a water of the United States;

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- j) ~~adequate information to support exceeding the limits as stated in 35 Ill. Adm. Code 302: Water Quality Standards; and-~~
- k) any other information required by the Agency for proper consideration of the permit.
- b) ~~After any algicide permit is issued, and before the permit expires by its stated terms, if there is any major change either in the operation of the public water supply, or in algae growth, which affects the use of the algicide as outlined in the permit, the public water supply shall submit an application for modification of its permit. This application shall contain all the information required by this subsection (b) and subsection (a) above.~~
- e) ~~Any algicide permit issued under this Section shall exempt the permittee from obtaining an aquatic pesticide permit as provided in Ill. Adm. Code 652.601.~~

(Source: Section 602.405 renumbered from Section 602.110 and amended at ____ Ill. Reg. _____, effective _____)

Section 602.410 Sampling

- a) The official custodian or an authorized delegate shall collect four water samples for each application of copper sulfate. Water samples shall be collected at the following locations and times:
 - 1) From the application area other than the raw water intake:
 - A) one sample must be collected before treatment;
 - B) one sample must be collected immediately after the copper sulfate treatment; and
 - C) one sample must be collected approximately 24 hours following the copper sulfate treatment.
 - 2) From the raw water intake, one sample must be collected approximately 24 hours following the copper sulfate treatment.
- b) The samples must be submitted to a certified laboratory for analysis of copper concentrations in the water.

(Source: Added at ____ Ill. Reg. _____, effective _____)

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Section 602.415 Modification

After any algicide permit is issued, and before the permit expires, if there is any major change either in the operation of the community water supply, or in algae growth, which affects the use of the algicide as outlined in the permit, the community water supply shall submit an application for modification of its permit. This application shall contain all the information required by Section 602.405(b) of this Part.

(Source: Added at ____ Ill. Reg. ____, effective ____)

SUBPART E: AQUATIC PESTICIDE PERMIT APPLICATIONS

Section 602.505 Aquatic Pesticide Permit Application Contents

The following shall be submitted for each permit application:

- a) List of reasons for controlling the aquatic plant or animal nuisance.
- b) Applicant Information
 - 1) The applicant shall be the official custodian of or have control over the waters receiving the aquatic pesticide.
 - 2) The application shall contain the name, address, telephone number and signature of the applicant. If the signature cannot be obtained, the application must be accompanied by a signed statement that the applicant has requested or approved the use of the aquatic pesticide for those specific waters of the State identified in the application.
- c) Applicator Information
 - 1) Provide the name, address and telephone number of the applicator.
 - 2) Provide the Illinois Department of Agriculture License Number.
 - 3) List the limitations imposed by the license which restrict the types of pesticides which may be used by the applicator.
- d) General information

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- 1) Describe the aquatic pesticide by trade name, chemical name or name of active ingredient(s), and name(s) of decomposition product(s).
 - 2) Provide the United States Environmental Protection Agency (USEPA) Registration Number for the pesticide.
 - 3) Describe steps to be followed in preparing and applying the pesticide including but not limited to proportions, mixing and precautions in preparation. A copy or facsimile of the label may be used to satisfy this requirement.
- e) Time and Location of Treatment
- 1) Show the area or areas to be treated on a United States Geological Survey (USGS) topographic map reproduction or an accurately drawn map of larger scale. Include the location(s) and provide the name of the owner(s) of all water intakes for a distance of 20 miles downstream of the area to be treated.
 - 2) Ponds under ten acres to be treated, but which are not used for public or food processing, shall be described using a map of the pond, tributaries and the surrounding area.
 - A) Pond locations shall be given and described as the quarter section, section number, township, range, county and township name.
 - B) Name all public and food processing water supplies for a distance of 20 miles downstream of the pond to be treated.
 - 3) List date and time required for each treatment.
- f) An inventory of the species, size and population of animals or plants to be controlled.
- g) Contacts with Downstream Water Users
- 1) Provide written documentation that all water supplies described in Section 652.601 have been notified of the proposed treatment and provided details of possible adverse effects.

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- 2) Provide the name(s) of water supply operator(s) who will be notified within 24 hours of aquatic pesticide application.

h) Application and Precautions

- 1) Describe the method to be used to apply the pesticide.
- 2) Describe the method to be used to protect humans and animals during the time toxic pesticide concentrations exist in the water.
- 3) Describe the method to be used to remove dead plants or animals should these accumulations result in water quality deterioration.
- 4) Describe the method to be used to retain water in the impoundment while toxic pesticide concentrations exit.
- 5) Describe the method to be used for detoxification in the event of water supply contamination.
- 6) Describe the actions to be taken to insure that tributary streams will not reintroduce the aquatic life being controlled following application of the pesticide. If these actions cannot be taken, state the anticipated frequency of retreatment.
- 7) Provide a copy of the contingency plan to be followed by water plant operators for emergency water plant shot down or emergency operation.

i) Water Characteristics and Chemistry

- 1) Provide information regarding the expected life of the active ingredient and its decomposition products, considering characteristics of the water such as pH, dissolved oxygen and temperature.
- 2) List the limiting chemical constituents of the water to be treated which can hinder the effectiveness of the pesticide.
- 3) List the short term and chronic effects of the pesticide on people and animals.
- 4) Describe the weather and stream flow conditions under which the pesticide must be applied.

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- 5) Provide a list of references used to obtain information for the preceding (1) through (4).
- j) Pesticide Dosage and Concentration
 - 1) List the pesticide dosage.
 - 2) List the concentration of the pesticide in the water immediately after application. Provide a copy of the computations used to determine the concentration.
- k) Stream and Impoundment Data
 - 1) Provide information on the stream flow expected during pesticide application. If information is not available, provide data on high, average and low stream flow conditions. Specify quantity of discharge in cubic feet per second and average stream velocity in feet per second.
 - 2) Impoundments
 - A) Provide information on the surface area, average depth, maximum depth and volume.
 - B) Provide information on the flow expected into and out of the impoundment during the time the pesticide will be active. Include the flows attributed to contributing streams, flow over the spillway and water withdrawn by individual users.
 - C) Provide information pertinent to the segment in questions when only part of the impoundment will be treated.
 - D) Show the water flow patterns to the water supply intake on a sketch of the impoundment. Provide an estimate of the minimum time required for the aquatic pesticide to reach the intake.
 - 3) List the reference sources or the name and qualifications of the person supplying stream flow and impoundment data.
- l) Additional Information and Reports

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- 1) Additional information shall be provided to the Agency upon request to assure the safety of a water supply as required by 35 Ill. Adm. Code 302.210.
- 2) A report letter shall be filed with the Agency within 30 days following the application of the aquatic pesticide. The report shall include but not be limited to:
 - A) names and addresses of applicant and applicator;
 - B) aquatic pesticide application permit number;
 - C) date of aquatic pesticide application;
 - D) name and amount of aquatic pesticide applied; and
 - E) a description of any mishap which endangered a water supply including the chronological steps taken to correct the problem.

(Source: Added at ____ Ill. Reg. ____, effective ____)

Section 602.510 Permits Under Public Health Related Emergencies

The Agency may issue Aquatic Pesticide Permits by telephone whenever public health is immediately endangered by an aquatic pest such as a disease-carrying organism. Aquatic Pesticide Permits issued by telephone shall have special conditions for safeguarding downstream public and food processing water supplies.

- a) The Agency will confirm in writing the granting of an emergency Aquatic Pesticide Permit within ten days of issuance.
- b) A written report containing information required by Section 602.505 shall be made to the Agency within 30 days following pesticide application.

(Source: Added at ____ Ill. Reg. ____, effective ____)

Section 602.515 State Agency Programs

The Departments of Public Health, Natural Resources and Agriculture may place on file with the Agency information required by Section 602.505(h), (i) and (j) for reference in future permit applications.

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(Source: Added at ____ Ill. Reg. ____, effective ____)

Section 602.520 Extension of Permit Duration

The Agency may extend the duration of Aquatic Pesticide Permits when circumstances beyond the control of the applicant prevent the aquatic pesticide application during the time specified in the permit.

- a) All requests for extensions of permit duration shall:
 - 1) be in writing;
 - 2) list the reason(s) the aquatic pesticide could not be applied on the date permitted;
 - 3) give the new date the aquatic pesticide is to be applied
 - 4) contain a statement that the aquatic pesticide shall be applied in accordance with the conditions listed in the Aquatic Pesticide Permit; and
 - 5) contain the Aquatic Pesticide Permit Number, the name and Illinois Department of Agriculture license number of the applicator and the signature of the applicant.
- b) Requests for extensions of permit duration may be made by telephone provided:
 - 1) the information listed in (a) above is stated; and
 - 2) the information listed in (a) above is transmitted in writing to the Division of Public Water Supplies Permit Section within five days of the date verbal approval for an extension of permit duration is given by the Agency.
- c) Applications for extensions of permit duration shall not be granted if more than two months have elapsed from the date of aquatic pesticide application listed in the permit.
- d) Extensions of permit duration, if granted by the Agency, shall be in writing.

(Source: Added at ____ Ill. Reg. ____, effective ____)

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Section 602.APPENDIX A References to Former Rules

The following table is provided to aid in referencing former Board rule numbers to section numbers pursuant to codification.

Chapter 6: Public Water Supplies	35 Ill. Adm. Code Part 602
Part II: Permits	Part 602
Rule 201	Section 602.101
Rule 202	Section 602.102
Rule 203	Section 602.103
Rule 204	Section 602.108
	Section 602.109
	Section 602.110
Rule 205	Section 602.107
Rule 206	Section 602.111
	Section 602.112
Rule 207	Section 602.105
Rule 208	Section 602.113
Rule 209	Section 602.116
Rule 210	Section 602.114
Rule 211	Section 602.118
Rule 212	Section 602.115
Rule 213	Section 602.104
Rule 214	Section 602.119
Rule 215	Section 602.120

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TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE F: PUBLIC WATER SUPPLIES
CHAPTER I: POLLUTION CONTROL BOARD

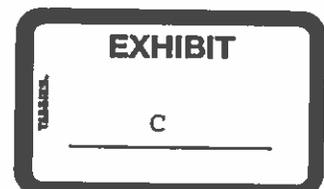
PART 602
PERMITS

SUBPART A: GENERAL PERMIT PROVISIONS

Section	
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602.102	Operating Permits
602.103	Algicide Permits <u>and Other Aquatic Pesticide Permits</u>
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602.105	Standards for Issuance
602.106	Restricted Status <u>and Critical Review</u>
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602.109	Operating Permit Applications <u>(Renumbered)</u>
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<u>602.220</u>	<u>Engineer's Report</u>
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<u>602.235</u>	<u>Plans</u>
<u>602.240</u>	<u>Source Construction Applications</u>
<u>602.245</u>	<u>Treatment Construction Applications</u>
<u>602.250</u>	<u>Storage Construction Applications</u>
<u>602.255</u>	<u>Water Main Construction Applications</u>

SUBPART C: OPERATING PERMIT APPLICATIONS

<u>Section</u>	
<u>602.305</u>	<u>Operating Permit Applications</u>
<u>602.310</u>	<u>Projects Requiring Disinfection</u>
<u>602.315</u>	<u>Projects Not Requiring Disinfection</u>
<u>602.320</u>	<u>Partial Operating Permits</u>

SUBPART D: ALGICIDE PERMIT APPLICATIONS

<u>Section</u>	
<u>602.405</u>	<u>Algicide Permit Applications</u>
<u>602.410</u>	<u>Sampling</u>
<u>602.415</u>	<u>Required Permit Modification</u>

SUBPART E: OTHER AQUATIC PESTICIDE PERMIT APPLICATIONS

<u>Section</u>	
<u>602.505</u>	<u>Other Aquatic Pesticide Permit Application Contents</u>
<u>602.510</u>	<u>Permits Under Public Health Related Emergencies</u>
<u>602.515</u>	<u>State Agency Programs</u>
<u>602.520</u>	<u>Extension of Permit Duration</u>

Appendix A References to Former Rules

AUTHORITY: Implementing Section 17 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/17 and 27].

SOURCE: Filed with Secretary of State January 1, 1978; amended and codified at 6 Ill. Reg. 11497, effective September 14, 1982; amended at 8 Ill. Reg. 2157, effective February 7, 1984; emergency amendment at 9 Ill. Reg. 13371, effective August 16, 1985, for a maximum of 150 days; amended at 10 Ill. Reg. 7337, effective April 22, 1986; amended in R96-18 at 21 Ill. Reg. 6562, effective May 8, 1997; amended in R03-21 at 27 Ill. Reg. 18030, effective November 12, 2003; amended in _____ at _____ Ill. Reg. _____, effective _____.

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SUBPART A: GENERAL PERMIT PROVISIONS

Section 602.101 Construction Permits

- a) No person shall cause or allow the construction of any new community~~public~~ water supply installation or cause or allow the change of or addition to any existing community~~public~~ water supply, without a construction permit issued by the ~~Environmental Protection Agency~~ (Agency). Community~~Public~~ water supply installation, change, or addition shall not include routine maintenance, service pipe connections, hydrants and valves, or replacement of equipment, pipe, and appurtenances with equivalent equipment, pipe, and appurtenances.
- b) Construction permits shall be obtained by the owner or official custodian of a community water supply
- 1) prior to beginning construction of any proposed community water supply;
 - 2) prior to all alterations, changes or additions to an existing community water supply which may affect the sanitary quality, mineral quality or adequacy of the community water supply; and
 - 3) prior to a the addition of new chemicals to the treatment process or changes in the points of applications of chemicals are made.
- c) A construction permit is not needed for normal work items such as:
- 1) installation of customer service connections to distribution system water mains;
 - 2) installation or replacement of hydrants and valves in the distribution system;
 - 3) repair of water mains. Repair includes replacement of existing water mains with mains of equivalent size pipe in the same location;
 - 4) routine maintenance of equipment such as painting, reconditioning, servicing;
 - 5) replacement of waterworks equipment such as chemical feeders, pumps or controls with equivalent equipment; or

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- 6) installation or replacement of meters.
 - d) All work performed on a communitypublic water supply shall be in accordance with accepted engineering practices.
 - e) Construction permit application requirements are found in Subpart B of this Part.
- (Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.102 Operating Permits

- a) No owner or operator of a communitypublic water supply shall cause or allow the use or operation of any new communitypublic water supply, or any new addition to an existing community water supply, for which a construction permit ~~Construction Permit~~ is required under this Part, without an operating permit ~~Operating Permit~~ issued by the Agency.
 - b) The operating permit application shall be filed with the Agency when construction is complete.
 - c) The operating permit shall be obtained before the project is placed in service.
 - d) Operating permit application requirements are found in Subpart C of this Part.
- (Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.103 Algicide Permits and Other Aquatic Pesticide Permits

- a) Algicide Permit.
 - 1) No algicide, copper sulfate, copper sulfate based products, or copper sulfate chemical aids shall be applied to any stream, reservoir, lake, pond, or other body of water used as a communitypublic water supply source without an Algicide Permit issued by the Agency.
 - 2) Any algicide permit issued under this Part shall exempt the permittee from obtaining an aquatic pesticide permit as provided in Section 602.103 of this Part.

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- 3) Permits issued under this Section will be valid for ~~community~~public water supply sources only.
 - 4) Algicide permit application requirements are found in Subpart D of this Part.
- b) Other Aquatic Pesticide Permit.
- 1) No pesticide, other than an algicide, shall be applied to any stream, reservoir, lake, pond or other body of water used as a community water supply source without an Aquatic Pesticide Permit issued by the Agency, where the application of the pesticide will have an effect on public or food processing water supplies. Effect shall be defined as any measurable concentration of the pesticide in the intake water of the public or food processing water supplies.
 - 2) No Person shall apply an aquatic pesticide within 20 miles upstream of a public or food processing water supply intake without a permit. The person having the aquatic pesticide applied shall apply for the permit. The 20 mile upstream distance shall be measured as follows:
 - A) for streams, the distance shall be measured from the water supply intake to the downstream edge of the area treated;
 - B) for impoundments, the distance shall be measured as the straight line distance over water from the intake to the nearest edge of the area treated;
 - C) when the shape of the impoundment will not allow a straight line measurement to be made, the shortest distance, over water, between the intake and the area is to be used;
 - D) for streams tributary to the impoundments, the distance shall be the sum of the stream distance plus the shortest line distance described in (2) and (3) above.
 - 3) Aquatic pesticide permit application requirements are found in Subpart E of this Part.

(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.104 Emergency Permits

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- a) Whenever emergency conditions require immediate action, the Agency may issue construction and operating permits by telephone to the owner or official custodian, operator, or Responsible Operator in Charge ~~person in responsible charge~~, with whatever special conditions the Agency deems to be necessary for the proper safeguarding of the health of the water consumers.
- 1) Emergency conditions are hazards or threats to public health caused by:
 - A) accidents;
 - B) equipment failures;
 - C) human error; or
 - D) natural disasters.
 - 2) As-built plans and specifications covering the work performed under the emergency telephone permit and any information required by special conditions in the emergency permit must be submitted to the Agency within 45 days of issuance of the emergency permit as soon as reasonably possible.
 - 3) Modifications required by the Agency after review of the submission shall be made within 90 days unless otherwise stated by the Agency promptly.
- b) The Agency shall confirm, in writing, within ten days of issuance, its granting of an emergency ~~construction~~ permit. Said confirmation ~~will~~ may be conditioned upon the receipt and approval, by the Agency, of as-built plans and specifications.
- c) The Agency can be contacted by calling:
 - 1) Bureau of Water, Division of Public Water Supplies Permit Section; or
 - 2) after normal business hours, the State emergency number, (217) 782-3637 (STA-EMER), or 1-800-782-7860.
- d) Each applicant for an emergency permit to install or extend a water main shall submit the appropriate fee, as specified in Section 16.1 of the Act, to the Agency within 10 calendar days from the date of issuance of the emergency construction permit. [415 ILCS 5/16.1]

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(Source: Amended at _____ Ill. Reg. _____, effective _____)

Section 602.105 Standards for Issuance

a) Construction or Operating Permits:

1) The Agency shall not grant any construction or operating permit required by this Part unless the applicant submits adequate proof that the communitypublic water supply will be constructed, modified or operated so as not to cause a violation of the Environmental Protection Act [415 ILCS 5] or Board rules.

2)b) The Agency shall not grant any construction or operating permit required by this Part unless the applicant submits adequate proof that the communitypublic water supply facility conforms to the following design criteria. In case the documents listed below conflict, the design criteria listed in subsection (a)(2)(A) shall be complied with.

A) Criteria promulgated by the Agency under Section 39(a) of the Act or Section 602.115 of this Part;

B) Recommended Standards for Water Works incorporated by reference at 35 Ill. Adm. Code 601.115;

C) American Water Works Association (AWWA) Standards Incorporated by reference at 35 Ill. Adm. Code 601.115; or

D) ~~or is based on such other~~ Other design criteria which the applicant proves will produce consistently satisfactory results.

3)e) The Agency shall not grant any construction permit required by this Part unless the applicant submits proof that allany plan and specification documents required by this Section and Subpart B of this PartSection 602.108 have been prepared by a person licensedqualified under the Illinois Architecture Practice Act [225 ILCS 305], the Illinois Professional Engineering Practice Act [225 ILCS 325], the Illinois Structural Engineering Licensing Act [225 ILCS 340], or any required combination thereof.

4) The Agency shall not issue a construction permit unless the community water supply has filed a notification of ownership pursuant to 35 Ill. Adm. Code 603.101.

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5) The existence of a violation of the Act or a regulation will not prevent the issuance of a construction permit if:

A) the applicant has been granted a variance from the regulation by the Board;

B) the permit is for construction or installation of equipment to alleviate or correct a violation; or

C) the permit application is for a water main extension to serve existing residences or commercial facilities where the permit applicant can show that those residences or commercial facilities are being served by a source of water of a quality or quantity which violates the primary drinking water standards of 35 Ill. Adm. Code 611.

b) Algicide or Aquatic Pesticide Permit:

The Agency shall not grant an algicide or pesticide permit required by this Part unless the applicant submits adequate proof that no unintentional adverse effects will occur as result of the application of the algicide or aquatic pesticide .

d) ~~Until December 8, 2003, the Agency shall not deny for the following reasons any construction or operating permit required by this Part:~~

~~1) the radium 226 level is less than or equal to 20 pCi/L;~~

~~2) the radium 228 level is less than or equal to 20 pCi/L; or~~

~~3) the gross alpha particle activity level minus the radium 226 level is less than or equal to 15 pCi/L.~~

e) ~~From December 8, 2003, until December 8, 2009, the Agency may issue a construction or operating permit to a public water supply that exceeds the maximum contaminant level (MCL) for combined radium (radium 226 and radium 228) of 5 pCi/L, the MCL for gross alpha particle activity of 15 pCi/L, or the MCL for uranium of 30 µg/L (35 Ill. Adm. Code 611.330) if the supply is bound to comply with the MCL pursuant to a specific schedule under:~~

~~1) A Compliance Commitment Agreement executed pursuant to Section 31 of the Act [415 ILCS 5/31]; or~~

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- 2) ~~An enforceable court order after referral by the Agency.~~

(Source: Amended at ____ Ill. Reg. ____, effective _____)

Section 602.106 Restricted Status and Critical Review

- a) Restricted status shall be defined as the Agency determination, pursuant to Section 39(a) of the Act and Section 602.105, that a ~~community~~ public water supply facility may no longer be issued a construction permit without causing a violation of the Act or ~~Board rules~~ this Chapter. Except as specified in Section 602.105(a)(5) of this Part, the Agency shall not issue a permit for water main extension construction where the water main would extend an existing violation of the Act or Board rules. Violations of Board rules that can result in a restricted status determination include, but are not limited to, regulations establishing maximum contaminant levels, treatment techniques, source water quantity requirements, treatment unit loading rates, storage volume requirements, and minimum pressure for a distribution system. When the Agency cannot issue a construction permit to a community water supply because such issuance would extend an existing violation of the Act or Board rules, the Agency shall place the community water supply on restricted status.
- b) The Agency shall publish in the Environmental Register and make available to the public at intervals of not more than ~~three~~ six months, a comprehensive and up-to-date list of community water supplies subject to restrictive status ~~and the reasons why~~. This list will be entitled the "Restricted Status List."
- c) The Agency shall notify the owners or official custodians and the Responsible Operator in Charge of community water supplies when the community water supply is initially placed on restricted status by the Agency.
- d) The Agency shall also publish in the Environmental Register at the same frequency as the Restricted Status List, a list of those community water supplies which Agency records indicate are approaching the point of violating any of the standards listed in subsection (a) of this Section. This list will be entitled the "Critical Review List". For the purpose of this section, approaching a violation shall include, but not be limited to, exceeding 80 percent of the rate of any of the quantity regulations used to make a restricted status determination, a pressure violation that only affects a small portion of a distribution system, a violation of duplicate unit requirements, or a failure to provide an emergency power source.

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- e) Both the Restricted Status List and the Critical Review List shall include a statement of the potential or existing violation of the Act or Board rules that caused the community water supply's inclusion on the list.
- f) Owners or official custodians of community water supplies which have been placed on Restricted Status or Critical Review shall notify any person requesting construction of a water main extension of this status.

~~Until December 8, 2003, the Agency shall not place public water supplies on restricted status when:~~

- ~~1) the radium 226 level is less than or equal to 20 pCi/L;~~
- ~~2) the radium 228 level is less than or equal to 20 pCi/L; or~~
- ~~3) the gross alpha particle activity level minus the radium 226 level is less than or equal to 15 pCi/L.~~

- e) ~~From December 8, 2003, until December 8, 2009, the Agency shall not place a public water supply on restricted status for exceeding the maximum contaminant level (MCL) for combined radium (radium 226 and radium 228) of 5 pCi/L, the MCL for gross alpha particle activity of 15 pCi/L, or the MCL for uranium of 30 µg/L (35 Ill. Adm. Code 611.330) if the supply is bound to comply with the MCL pursuant to a specific schedule under:~~

- ~~1) A Compliance Commitment Agreement executed pursuant to Section 31 of the Act [415 ILCS 5/31]; or~~
- ~~2) An enforceable court order after referral by the Agency.~~

(Source: Amended at ____ Ill. Reg. ____, effective _____)

Section 602.107 Signatory Requirement for Permit Applications

All permit applications shall be signed by the owner or official custodian of the community public water supply, or by the owner's duly authorized agent, and shall be accompanied by evidence of authority to sign the application.

(Source: Amended at ____ Ill. Reg. ____, effective _____)

Section 602.108 Construction Permit Applications (Renumbered)

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(Source: Section 602.108 renumbered to Section 602.205 and amended at ____ Ill. Reg. _____, effective _____)

Section 602.109 Operating Permit Applications (Renumbered)

(Source: Section 602.109 renumbered to Section 602.305 and amended at ____ Ill. Reg. _____, effective _____)

Section 602.110 Algicide Permit Applications (Renumbered)

(Source: Section 602.110 renumbered to Section 602.400 and amended at ____ Ill. Reg. _____, effective _____)

Section 602.111 Application Forms and Additional Information

The Agency may prescribe the form in which all information required under this Part shall be submitted and ~~require~~ ~~may adopt procedures requiring~~ such additional information as is necessary to determine whether the ~~community~~ public water supply system will meet the requirements of the Act and this Chapter.

(Source: Amended at ____ Ill. Reg. _____, effective _____)

Section 602.112 Filing and Final Action by Agency on Permit Applications

- a) For permits without a fee under Section 16.1 of the Act:
- 1) An application for a permit shall be deemed to be filed on the date of initial receipt by the Agency of the application documents.
 - 2) Except for emergency permits, applications for construction permits must be submitted at least 90 days before the expected start of construction.
 - 3)b) If the Agency fails to take final action, by granting or denying the permit as requested or with conditions, within ninety days from the filing of the ~~completed~~ application, the applicant may deem the permit granted for a period of one year, commencing on the ninety-first day after the application was filed.
 - 4)e) Any applicant for a permit may waive in writing the requirement that the Agency must take final action within ninety days from the filing of the application.

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- b) For permits with a fee under Section 16.1 of the Act:
- 1) An application for a permit shall be deemed to be filed on the date the Agency has received the application documents and required fee. The Agency shall send the applicant written notification of receipt of the complete application.
 - 2) Except for emergency construction permits, applications for construction permits must be submitted at least 45 days before the expected start of construction.
 - 3) The Agency shall deny construction permit applications that do not contain the entire fee.
 - 4) The Agency shall take final action by granting or denying permits within 45 days of the filing of an application and the payment of the required fee. If the Agency fails to take final action within 45 days of filing the application and payment of the required fee, the applicant may deem the permit issued.
- c) The Agency shall maintain a progress record of all permit applications including interim and final action dates. This information is available to the applicant upon request.
- d) The Agency shall send all notices of final action by U.S. mail. The Agency shall be deemed to have taken final action on the date that the notice is mailed.

(Source: Amended at ____ Ill. Reg. ____, effective _____)

Section 602.113 Duration

- a) Construction Permits
- 1) Construction permits for community water supply facilities expire one year from the date of issuance unless construction has started. shall be valid for the start of construction within one year from the date of issuance and-If construction does not commence within one year from the date of issuance, the permit may be renewed for additional one year periods at the discretion of the Agency.
 - 2) If construction commences within one year from the date of issuance or renewal of the construction permit, the permit expires five years from the

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date of issuance or renewal, whichever is later. Construction, once started, may continue for four years without permit renewal and ~~Thereafter, the permit may be renewed for periods specified by the Agency at its discretion for each permit renewal.~~

- b) ~~Operating permits~~ Operation Permits—~~Operation Permits~~ shall be valid until revoked unless otherwise stated in the permit.
- c) ~~Algae Permits~~—Algae permits shall be issued for fixed terms not to exceed five years ~~be valid for the period stated in the permit, but in no case longer than five years.~~
- d) Aquatic pesticide permits shall be valid for the application of pesticides described in the permit application, not to exceed six months.

(Source: Amended at ____ Ill. Reg. _____, effective _____)

Section 602.114 Conditions

In addition to specific conditions authorized under this Part, the Agency may impose such conditions in a permit ~~as may be necessary to accomplish the purposes of the Act and that~~ as are consistent not inconsistent with Board regulations promulgated by the Illinois Pollution Control Board ~~(Board).~~

(Source: Amended at ____ Ill. Reg. _____, effective _____)

Section 602.115 Design, Operation, and Maintenance Criteria

- a) The Agency may adopt criteria in rules for the design, operation, and maintenance of ~~community~~ public water supply facilities as necessary to insure safe, adequate, and clean water. These criteria shall be revised from time to time to reflect current engineering judgment and advances in the state of the art.
- b) Before adopting new criteria or making substantive changes to any of its rules for ~~community~~ public water supplies, the Agency shall comply with the provisions of the Administrative Procedure Act [5 ILCS 100].

(Source: Amended at ____ Ill. Reg. _____, effective _____)

Section 602.116 Requirement for As-Built Plans

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If any portion of~~Whenever~~ a community water supply has been constructed without a construction permit as required by Section 602.101 of this Part or an emergency permit pursuant to Section 602.104 of this Part, the community water supply must submit to the Agency ~~may require submission of~~ as-built plans, specifications and a construction permit application. As-built plans and specifications must be prepared by a qualified person as described in Section 602.105(a)(3)~~602.105(e)~~. All plans, specifications or construction permit applications submitted to the Agency under this Section shall be clearly marked "as-built". Any deficiencies requiring correction as determined by the Agency must be corrected within a time limit set by the Agency. Submission of as-built plans and the correction of any deficiencies~~This does not relieve the owner or official custodian from any liability for construction of the supply without a permit.~~

(Source: Amended at ____ Ill. Reg. _____, effective _____)

Section 602.117 Existence of Permit No Defense

The existence of a permit under this Chapter shall not constitute a defense to a violation of the Act or any Board or Agency rule except for the requirements to secure construction, operating, algicide, aquatic pesticide or emergency permits.

(Source: Amended at ____ Ill. Reg. _____, effective _____)

Section 602.118 Appeals of Final Agency Action on a Permit Application from Conditions

- a) If the Agency denies a permit required under this Part, the applicant may petition the Board to appeal the Agency's final decision pursuant to Section 40 of the Act.
- b) An applicant may consider any condition imposed by the Agency in a permit issued pursuant to this Part as a refusal by the Agency to grant a permit, which shall entitle the applicant to appeal the Agency's decision to the Board pursuant to Section 40 of the Act.
- c) All appeals shall be filed with the Board within 35 days of the day the applicant is served with the Agency's final decision.

(Source: Amended at ____ Ill. Reg. _____, effective _____)

Section 602.119 Revocations

Violation of any permit conditions or failure to comply with the Act or Board or Agency rule~~any rule or regulation of this Chapter~~ shall be grounds for enforcement actions as provided in the Act, including revocation of a permit. Such enforcement actions shall be sought by filing a complaint with the Board pursuant to Title VIII of the Act.

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(Source: Amended at ____ Ill. Reg. ____, effective _____)

Section 602.120 Limitations

Issuance of a permit under this Part does not relieve the applicant of the obligation to obtain other permits required from other State entities, the Agency, or local governing bodies. Any permit issued under this Part shall not be considered to be valid unless and until all applicable permits from State agencies, including but not limited to those listed below, have been applied for:

AGENCY	PERMIT DESCRIPTION
Illinois Commerce Commission	Certificate of Convenience and Necessity
Dept. of Natural Resources Office of Water Resources	Changes to Existing Waterways

(Source: Amended at ____ Ill. Reg. ____, effective _____)

Section 602.125 Right of Inspection

The permittee shall allow any agent duly authorized by the Agency upon presentation of credentials, and in accordance with constitutional limitations, to:

- a) enter at reasonable times the permittee's premises where treatment or distribution facilities are located or where any activity is to be conducted pursuant to a permit;
- b) have access to and copy at reasonable times any records required to be kept under the terms and conditions of a permit;
- c) inspect at reasonable times including during any hours of operation:
 - 1) equipment constructed or operated under the permit;
 - 2) equipment or monitoring methodology; or
 - 3) equipment required to be kept, used, operated, calibrated and maintained under the permit;

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- d) obtain and remove at reasonable times samples of any raw or finished water, discharge or emission of pollutants;
- e) enter at reasonable times to use any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring or recording any raw or finished water, activity, discharge or emission authorized by a permit.

(Source: Added at ____ Ill. Reg. _____, effective _____)

SUBPART B: CONSTRUCTION PERMIT APPLICATIONS

Section 602.200 Preliminary Plans

- a) Preliminary plans may be submitted prior to an application to expedite review of subsequent construction permit application plan documents. No approval for construction shall be issued until the completed application, required fee, plans and specifications have been submitted.
- b) If preliminary plans are submitted, the documents shall include a description of alternate solutions, a discussion of the alternatives and reasons for selecting the alternative recommended.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section ~~602.205~~602.108 Construction Permit Applications

All applications for any construction permit required under this Chapter shall contain, where appropriate, the following information and documents:

- a) General information, including but not limited to:
 - 1) name of the community water supply;
 - 2) community water supply identification number;
 - 3) the name and mailing address of the owner or official custodian of the community water supply; and
 - 4) name, scope and location of the project;
- b) Engineer's report, as specified in Section 602.220 of this Part;

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- c) A summary of the design ~~criteria~~ ~~basis~~ ~~as~~ ~~specified~~ in Section 602.225 of this Part;
- d)b) Specifications as specified in Section 602.630 of this Part ~~Operation~~ requirements;
- ee) Plans as specified in Sections 602.235 of this Part ~~General~~ layout;
- e) ~~Detailed~~ plans;
- e) Specifications;
- f) Specific information for the type of construction, as follows:
 - 1) For source construction, information specified in Section 602.240 of this Part;
 - 2) For the construction of treatment facilities, information specified in Section 602.245 of this Part;
 - 3) For the construction of storage facilities, information specified in Section 602.250 of this Part;
 - 4) For the construction of water mains, information specified in Section 602.255 of this Part.
- ~~A professional seal to satisfy Section 602.105 (c) requirements;~~
- g) Water purchase contracts between water supplies and/or inter-municipal agreements, where applicable;
- h) Evaluation of technical, managerial, and financial capacity as specified in Section 15 of the Act and 35 Ill. Adm. Code Subtitle F;
- i)g) Certification by each person signing the application that the information in the application is complete and accurate, and that the text of the application has not been changed from the Agency's official construction permit application form; and
- j)h) Any other information required by the Agency for proper consideration of the permit.

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(Source: Section 602.205 renumbered from Section 602.108 and amended at ____ Ill. Reg. _____, effective _____)

Section 602.210 Submission of Applications, Plans and Specifications

- a) Two copies of the completed application, and any required plans, specifications and supplemental schedules shall be submitted to Agency for review and approval.
- b) All permit applications shall be mailed or delivered to the appropriate address designated by the Agency.
- c) The Agency shall acknowledge receipt of submitted documents.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 602.215 Alterations

- a) Any proposed deviations from plans and specifications previously approved by the Agency shall receive a supplemental permit from the Agency before such changes are made. Approval by the Agency shall be in accordance with Section 602.105 and this Subpart. Changes which require a supplemental permit include, but are not limited to, those which affect the location, sanitary and/or mineral quality, capacity, hydraulic conditions, operating units or functioning of water purification units.
- b) Revised plans or specifications must be submitted to and approved by the Agency before any construction which will be affected by such changes has been started.
- c) A supplemental permit is not required for structural revisions for minor changes which will not affect the location, capacity, hydraulic conditions, water purification processes or the sanitary or mineral quality of the water to be delivered.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 602.220 Engineer's Report

Upon request from the Agency, an applicant for a construction permit must submit an Engineer's Report. Types of construction projects where the Agency may request an Engineer's Report include but are not limited to the construction of a new community water supply, a new source location, a new water treatment plant other than a facility which utilizes chemical feeding only,

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or a project funded by a low interest loan obtained from the Agency. An Engineer's Report submitted pursuant to this Section must contain the following information.

- a) General information, including:
 - 1) a description of existing waterworks;
 - 2) a description of sewerage facilities;
 - 3) a description of the municipality or area to be served; and
 - 4) the name and mailing address of the owner or official custodian.
- b) Extent of community water supply system, including:
 - 1) the area to be served with water and any provisions for extending the community water supply system;
 - 2) additional areas to be served and an appraisal of the future requirements for service; and
 - 3) present and prospective industrial and commercial water supply needs which are likely to be required in the near future.
- c) Water consumption data, including:
 - 1) population trends as indicated by available records;
 - 2) estimate of the number of consumers based on population trends who will be served by the proposed or expanded water supply system 25 years in the future;
 - 3) present and future water consumption values used as the basis of design;
 - 4) present and estimated future yield of the water sources for a community water supply; and
 - 5) estimated water loss in the distribution system based on available records.
- d) A justification for the project where two or more solutions exist for providing community water supply facilities, each of which is feasible and practicable. The Engineer's Report shall discuss the alternatives and provide reasons for selecting

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the one recommended, including financial considerations, operational requirements, operator qualifications, reliability, and water quality considerations.

e) Sources of water supply. The Engineer's Report shall describe the proposed source or sources of water supply to be developed, the reasons for their selection, and provide information as follows:

1) For surface water sources:

- A) hydrological data, stream flow and weather records;
- B) safe yield, including all factors that may affect it;
- C) documentation of structural safety of any spillway or dam to assure the spillway and dam can continue to provide a source of water during extreme weather;
- D) description of the watershed, noting any existing or potential sources of contamination (such as highways, railroads, chemical facilities, land/water use activities, etc.) which may affect water quality;
- E) summarized quality of the raw water with special reference to fluctuations in quality, changing meteorological conditions, etc.;
and
- F) source water protection issues or measures, including erosion and siltation control structures, that need to be considered or implemented.

2) For groundwater sources:

- A) sites considered;
- B) advantages of the site selected;
- C) elevations with respect to surroundings;
- D) probable character of formations through which the source is to be developed;

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- E) geologic conditions affecting the site, such as anticipated interference between proposed and existing wells;
 - F) summary of source exploration, test well depth, and method of construction; placement of liners or screen; test pumping rates and their duration; water levels and specific yield; water quality;
 - G) sources of possible contamination such as sewers and sewage treatment/disposal facilities, highways, railroads, landfills, outcroppings of consolidated water bearing formations, chemical facilities, waste disposal wells, agricultural uses, etc; and
 - H) wellhead protection measures being considered.
- f) Project sites, including:
- 1) a discussion of the various sites considered and advantages of the recommended ones;
 - 2) the proximity of residences, industries, and other establishments; and
 - 3) any potential sources of pollution that may influence the quality of the supply or interfere with effective operation of the water works system, such as sewage absorption systems, septic tanks, privies, cesspools, sink holes, sanitary landfills, refuse and garbage dumps, etc.
- g) Proposed Treatment Processes. The Engineer's Report shall describe all proposed treatment processes for providing the quality desired from the specific raw water under consideration and any available data proving the capability of providing the treatment.
- h) Automation. The Engineer's Report shall provide supporting data justifying automatic equipment, including the servicing and operator training to be provided, and must provide for manual override for any automatic controls.
- i) Power. The Engineer's Report shall include the following power description:
- 1) the main source of power;
 - 2) dedicated standby power capable of providing power to operate the community water supply's water source, treatment plant and distribution facilities during power outages; and

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- 3) outside emergency power sources which are available.
- j) Soil, groundwater conditions and foundation problems, including:
 - 1) the character of the soil through which water mains are to be laid;
 - 2) foundation conditions prevailing at sites of proposed structures; and
 - 3) the approximate elevation of groundwater at its expected highest level in relation to sub-surface structures.
- k) Flow requirements, including a hydraulic analysis based on flow demands and pressure requirements

BOARD NOTE: fire flows, when fire protection is provided, should meet the recommendations of the Illinois Insurance Services Office or other similar agency for the service area involved.

- l) Water Plant Wastes. When waste treatment facilities are necessary, those facilities shall be included as part of the engineering plans and specifications, and the engineer report shall include the following:
 - 1) an estimate of the character and volume of the waste which will be generated and its proposed disposition; and
 - 2) type of waste treatment, discharge location and frequency of discharge.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 602.225 Design Criteria

A summary of complete design criteria shall be submitted for the proposed project containing, where applicable, the following:

- a) long term dependable yield of the source of supply;
- b) reservoir surface area, volume, and a volume versus depth curve;
- c) area of watershed;
- d) estimated average and maximum day water demands for the design period;

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- e) number of proposed services;
- f) fire fighting requirements;
- g) flash mix, flocculation and settling basin capacities;
- h) retention times;
- i) unit loadings;
- j) filter area and the proposed filtration rate;
- k) backwash rate;
- l) feeder capacities and ranges; and
- m) minimum and maximum chemical application rates.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 602.230 Specifications

- a) Complete detailed specifications shall be supplied for all community water supply construction.
- b) The specifications shall have a professional seal and signature that satisfy Section 602.105(a)(3) of this Part.
- c) Water main standard specifications which have been adopted by a community water supply or a consulting engineer may be submitted for review by the Agency. If approved standard specifications are kept on file with the Agency, and the community water supply need not resubmit the specifications unless changes occur. Standard specifications shall equal or exceed the requirements of Section 602.105 of this Part.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 602.235 Plans

Unless otherwise specified by the Agency, plans submitted to the Agency must provide the following:

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- a) General Layout
- 1) a suitable title;
 - 2) name of owner of the community water supply;
 - 3) area or institution to be served;
 - 4) scale;
 - 5) north point;
 - 6) datum used;
 - 7) boundaries of the municipality or area to be served;
 - 8) date, name and address of the designing engineer;
 - 9) professional engineer's seal and signature to satisfy Section 602.105(a)(3);
 - 10) location and size of existing water mains;
 - 11) location and nature of existing water works structures and appurtenances affecting the proposed construction, noted on one sheet; and
 - 12) location of any petroleum storage tanks within 400 feet of the proposed construction.
- b) Details as specified in Section 620.240 through Section 602.255 of this Part.
- c) The size of plans submitted to the Agency shall not exceed 24 inches by 36 inches.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 602.240 Source Construction Applications

Construction permit applications for the construction of a new or the modification of an existing well or surface water intake must include the information specified by this Section.

- a) Well construction permit applications shall specify the following:

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- 1) the latitude and longitude of the well location;
- 2) the location and nature of all potential routes, potential primary sources, and potential secondary sources of contamination within 2,500 feet of the well location;
- 3) the maximum level of flood as determined by the flood of record waters and height of well casing for sites subject to flooding;
- 4) a general aquifer description;
- 5) the total well depth;
- 6) the well casing diameter, material, depth, weight, height above ground, and thickness;
- 7) the grout type, thickness, and depth;
- 8) the screen diameter, material, slot size, and length, if applicable;
- 9) temporary capping and security measures during well construction;
- 10) proposed pump test procedures;
- 11) sampling procedures, if necessary, for wells that may be subject to surface water influences;
- 12) well pump manufacturer, type, design capacity, head rating, and depth of pump setting;
- 13) column pipe diameter, length, material, and joint;
- 14) discharge pipe diameter, depth of cover, material, and valving;
- 15) casing vent diameter;
- 16) air line length;
- 17) location of the raw water sample tap;
- 18) a description of how the top of the well casing is sealed;

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19) a description of access to the well site; and

20) well hydraulics and aquifer property data.

b) The following information must be submitted on plans for well construction permit applications:

1) the well location and 2,500 foot radius showing the location of potential routes, potential primary sources, and potential secondary sources of contamination;

2) the well location and a 400 foot radius showing the location of the sources of pollution listed in Table A of 35 Ill. Adm. Code 653.118;

3) a cross-section of the well showing finished grade, natural ground surface, vent, casing, column pipe, screen, well depth, pump depth, grout, gravel pack, and discharge piping;

4) the discharge piping including, pressure gauge, meter, sample tap, check valve, shut-off valve and vacuum/air release valve, if applicable;

5) well house construction, if provided;

6) electrical junction boxes;

7) the location of any observation wells; and

8) piping showing the ability to pump to waste.

c) The following information must be submitted on plans for surface water intake construction permit applications:

1) plan and profile views of the intake structure showing the location, elevation of intake ports, fish screens, valves, piping, and pumps, if applicable;

2) location of inspection manholes, if applicable; and

3) location of chemical treatment, if applicable;

(Source: Added at ____ Ill. Reg. _____, effective _____)

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Section 602.245 Treatment Construction Applications

The following information must be submitted on plans for the construction of treatment facilities:

- a) all appurtenances, specific structures or equipment having any connection with the planned water treatment improvements. Detailed plans shall be drawn to a scale which will describe the proposed structures and equipment. Dimensions, elevations, and explanatory notes shall be shown.
- b) detailed hydraulic profiles of water flowing through treatment systems;
- c) schematic plumbing for all structures and equipment;
- d) location of the sources of pollution listed in Table A of 35 Ill. Adm. Code 653.118;
- e) the maximum flood level for sites subject to flooding; and
- f) security provisions.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 602.250 Storage Construction Applications

The following information must be submitted on plans for the construction of storage facilities:

- a) storage capacity;
- b) plan and profile views showing the location, elevation, piping, access hatches, vents, overflows, safety appurtenances, and sample taps;
- c) for below ground or partially below ground storage tanks, location of the sources of pollution listed in Table A of 35 Ill. Adm. Code 653.118 within a 400 foot radius of the storage structure;
- d) security provisions;
- e) baffling arrangement, if applicable;
- f) the maximum flood level for sites subject to flooding;

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- g) for hydropneumatic tanks, the bypass piping, access manhole, drain, sight glass, pressure gauge, pressure relief valve, air compressor, and housing;
- h) mixing systems, if applicable; and
- i) ability to drain a storage tank without causing the pressure in the distribution system to drop below 20 psi.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 602.255 Water Main Construction Applications

- a) Water main construction permit applications shall specify the following:
 - 1) the existing population served by the present supply, and the population to be served by the water main extension;
 - 2) the average daily pumpage for the community water supply on an annual basis;
 - 3) the maximum daily pumpage;
 - 4) the capacity of the community water supply;
 - 5) the capacity of the raw water source;
 - 6) the capacity of the proposed water main;
 - 7) the normal expected operating pressure on the proposed water main;
 - 8) the minimum expected operating pressure on the proposed water main;
 - 9) the pressure at the point of connection at present maximum demand;
 - 10) the calculated pressure at the point of connection under maximum demand after installation of the water main;
 - 11) the size of the pipe and total feet of the water main;
 - 12) the pipe material and type of joint;

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- 13) the proposed depth below ground surface of the water main;
 - 14) sewer and water separation:
 - A) an indication of whether minimum horizontal and vertical separation requirements in Section 653.119 of this Part have been met; and
 - B) an explanation of other measures taken to protect the water main if the separation requirements are not met;
 - 15) a disinfection plan which details the chemical to be used, initial disinfectant concentration, final disinfectant concentration and retention time in hours; and
 - 16) a water sampling plan to meet the requirements of Section 602.310 of this Part.
- b) The following information must be submitted on plans with water main construction permit applications:
- 1) the border lines of the municipality, water district or area to be served;
 - 2) the size, length and identity of proposed water mains and water system structures;
 - 3) the elevation of water mains and other water system structures;
 - 4) the location of existing or proposed streets;
 - 5) the location of storm, sanitary, combined and house sewers, septic tanks, disposal fields and cesspools;
 - 6) the location of pipeline or other source containing hydrocarbons;
 - 7) the sources of pollution listed in Table A of 35 Ill. Adm. Code 653.118. The plans shall indicate the distances between community water supply structures and the sources of pollution.
 - 8) stream crossings with elevations of the stream bed shown, including the normal, extreme high and extreme low water levels of the stream. Profiles shall have a horizontal scale of not more than 100 feet to the inch

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and a vertical scale of not more than ten feet to the inch. Both scales shall be clearly shown; and

- 9) all appurtenances, specific structures or equipment having any connection with planned water mains and water system structures. Detailed plans shall be drawn to a scale which will describe the proposed structures and equipment. Dimensions, elevations and explanatory notes shall be shown.

(Source: Added at ____ Ill. Reg. _____, effective _____)

SUBPART C: OPERATING PERMIT APPLICATIONS

Section 602.305602-109 Operating Permit Applications

All applications for operating permits shall contain:

- a) ~~The name and identification certificate number of the certified operator in responsible operator in charge pursuant to 35 Ill. Adm. Code 603 on the operational staff of the public water supply or the name and registration number of the registered person in responsible charge for supplies which are exempt from the requirement for a certified operator; and~~
- b) the community water supply's name, address, identification number and project name ~~the name and location of the public water supply;~~
- c) construction permit number, type of construction permit, and the date the construction permit was issued ~~the construction permit number under which the public water supply was constructed; and~~
- d) an explanation of the status of the construction project. If the project is only partially completed, the applicant must provide the information set forth in Section 602.320; and
- e) any other information required by the Agency for proper consideration of the permit, including, but not limited, to the submission of the water sample results pursuant to Section 602.310.

(SOURCE: Section 602.305 renumbered from Section 602.109 and amended at ____ Ill. Reg. _____, effective _____)

Section 602.310 Projects Requiring Disinfection

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- a) Satisfactory disinfection as specified in this Section must be demonstrated before the issuance of an operating permit for completed construction projects where facilities produce, contain, treat or carry water that must be bacteriologically safe. This includes but is not limited to water mains, filters, finished water storage tanks and wells.
- b) Disinfection of a filter with granular activated carbon (GAC) shall be done prior to adding the GAC. Disinfection of an ion exchange unit shall be done prior to adding a resin with a low chlorine tolerance. Disinfection of a membrane unit shall be done prior to adding membrane material with a low chlorine tolerance. Care should be taken when handling the GAC, resin or membrane to keep the material as clean as possible.
- c) Except as specified in subsection (d) of this Section, satisfactory disinfection is demonstrated when two consecutive water sample sets collected from the completed project at least 24 hours apart indicate no bacterial growths as measured by the membrane filter technique or no tubes positive as measured by the presumptive test, fermentation tube method. A sample set consists of the following:
 - 1) For water mains, representative water samples must be collected from every 1,200 feet of new main along each branch and from the end of the line. The Agency may approve a different sampling plan on a site-specific basis.
 - 2) For water treatment plants, representative water samples must be collected from each aerator, detention tank, filter, ion exchange unit, clearwell, and other treatment components, and from the entry point to the distribution system.
- d) For water main construction projects at existing community water supplies practicing chlorination in accordance with 35 Ill. Adm. Code 611.240, satisfactory disinfection is demonstrated when
 - 1) one water sample set from the completed project collected in accordance with subsection (c)(1) of this Section indicates no bacterial growths as measured by the membrane filter technique or no tubes positive as measured by the presumptive test, fermentation tube method; and
 - 2) Adequate chlorine residual is present at the point of connection. Adequate chlorine residuals exist in a distribution system when there is a minimum of 0.2 mg/l free chlorine residual for water supplies practicing free

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chlorination or 0.5 mg/l combined chlorine residual for water supplies practicing combined chlorination.

- e) If the analyses pursuant to subsection (d) this Section indicate the presence of bacterial growth, the community water supply must do the following to demonstrate satisfactory disinfection:
- 1) resample at the sampling point indicating contamination and at every sampling point downstream of the point indicating contamination.
 - 2) submit a general layout sheet of the project indicating the location of all water mains to be operating; and
 - 3) submit evidence to the Agency that two consecutive water sample sets collected as specified in subsection (e)(1) of this Section indicated no bacterial growths as measured by the membrane filter technique or no tubes positive as measured by the presumptive test, fermentation tube method.
- f) Analyses conducted pursuant to this Section shall be performed by a certified laboratory.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 602.315 Projects Not Requiring Disinfection

Disinfection is not required for projects involving installation of equipment not in contact with finished water, which includes but is not limited to chemical feeders, coagulation basins and raw surface water transmission lines.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 602.320 Partial Operating Permits

- a) If all phases of a construction project will not be completed at one time, the Agency shall issue a partial operating permit pursuant to 35 Ill. Adm. Code 602.105 upon receipt of:
- 1) a cover letter describing which sections of the project are completed;
 - 2) a general layout plan sheet of the project indicating the location of all water mains to be operated;

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- 3) a completed and signed operating permit application; and
 - 4) bacteriological analyses results from water samples collected from the completed section of the project. The analyses shall verify satisfactory disinfection in accordance with Section 602.310.
- b) Additional operating permits shall be obtained as other sections of the project are completed.

(Source: Added at _____ Ill. Reg. _____, effective _____)

SUBPART D: ALGICIDE PERMIT APPLICATIONS

Section ~~602.405~~602.110 Algicide Permit Applications

- a) All applications for algicide permits shall contain, at a minimum:
- a) ~~1)~~ the name and identification certificate number of the responsible operator in charge certified operator supervising the application of the algicide;
 - b) ~~2)~~ a statement describing the extent of the algae problem, history of any past algae problems, and past algicide treatments, and a description of any fish kills which have resulted from treatments in the past; and
 - c) description of any adverse effects algae has had on the various treatment processes and on the finished water quality;
 - d) a description of any fish kills that might have resulted from past use of copper sulfate, copper sulfate based products, and copper sulfate chemical aids;
 - e) location and volume of the body of water where the algicide will be applied;
 - f) name of source stream (if any);
 - g) amount of copper sulfate to be used for each treatment;
 - h) time interval between treatments;
 - i) a copy of the applicant's authorization to discharge under an NPDES permit if the algicide is applied to a water of the United States;

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- j)3) ~~adequate information to support exceeding the limits as stated in 35 Ill. Adm. Code 302: Water Quality Standards; and-~~
- k) any other information required by the Agency for proper consideration of the permit.
- b) ~~After any algicide permit is issued, and before the permit expires by its stated terms, if there is any major change either in the operation of the public water supply, or in algae growth, which affects the use of the algicide as outlined in the permit, the public water supply shall submit an application for modification of its permit. This application shall contain all the information required by this subsection (b) and subsection (a) above.~~
- e) ~~Any algicide permit issued under this Section shall exempt the permittee from obtaining an aquatic pesticide permit as provided in Ill. Adm. Code 652.601.~~

(Source: Section 602.405 renumbered from Section 602.110 and amended at ____ Ill. Reg. _____, effective _____)

Section 602.410 Sampling

- a) The owner or official custodian, or an authorized delegate shall collect water samples for each application of copper sulfate. Water samples shall be collected at the following locations and times:
 - 1) From the raw water intake, one sample must be collected before treatment;
 - 2) From the entry point to the distribution system:
 - A) One sample must be collected approximately 24 hours following the copper sulfate treatment.
 - B) One sample must be collected approximately 48 hours following the copper sulfate treatment.
- b) The samples must be submitted to a certified laboratory for analysis of copper concentrations in the water.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 602.415 Required Permit Modification

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After any algicide permit is issued, and before the permit expires, if there is any major change either in the operation of the community water supply or in algae growth which affects the use of the algicide as outlined in the permit, the community water supply shall submit an application for modification of its permit. This application shall contain all the information required by Section 602.405(b) of this Part.

(Source: Added at ____ Ill. Reg. ____, effective ____)

SUBPART E: OTHER AQUATIC PESTICIDE PERMIT APPLICATIONS

Section 602.505 Other Aquatic Pesticide Permit Application Contents

The following shall be submitted for each permit application:

- a) List of reasons for controlling the aquatic plant or animal nuisance.
- b) Applicant Information
 - 1) The applicant must be the official custodian of or have control over the waters receiving the aquatic pesticide.
 - 2) The application must contain the name, address, telephone number and signature of the applicant. If the applicant's signature cannot be obtained, the application must be accompanied by a signed statement that the applicant has requested or approved the use of the aquatic pesticide for the times and locations identified in the application.
- c) Applicator Information
 - 1) The name, address and telephone number of the applicator.
 - 2) The applicator's Illinois Department of Agriculture License Number.
 - 3) A list of the limitations imposed by the applicator's license which restrict the types of pesticides which may be used by the applicator.
- d) General information
 - 1) A description of the aquatic pesticide by trade name, chemical name or name of active ingredient(s), and name(s) of decomposition product(s).

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- 2) The United States Environmental Protection Agency (USEPA) Registration Number for the pesticide.
 - 3) A description of the steps to be followed in preparing and applying the pesticide, including but not limited to proportions, mixing and precautions in preparation. A copy or facsimile of the label containing such information may be used to satisfy this requirement.
- e) Time and Location of Treatment
- 1) A depiction of the area or areas to be treated on a United States Geological Survey (USGS) topographic map reproduction or an accurately drawn map of larger scale. Include the location(s) and provide the name of the owner(s) of all water intakes for a distance of 20 miles downstream of each area to be treated.
 - 2) Ponds under ten acres to be treated, but which are not used for public or food processing, must be described using a map of the pond, tributaries and the surrounding area.
 - A) Pond locations shall be given and described as the quarter section, section number, township, range, county and township name.
 - B) The name of all public and food processing water supplies for a distance of 20 miles downstream of the pond to be treated must be provided.
 - 3) A list of the date and time required for each treatment.
- f) An inventory of the species, size and population of animals or plants to be controlled.
- g) Contacts with Downstream Water Users
- 1) Written documentation showing that all water supplies described in Section 652.601 have been notified of the proposed treatment and provided details of possible adverse effects.
 - 2) The name(s) of water supply operator(s) who will be notified within 24 hours of aquatic pesticide application.
- h) Application and Precautions

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- 1) A description of the method to be used to apply the pesticide.
 - 2) A description of the method to be used to protect humans and animals during the time toxic pesticide concentrations exist in the water.
 - 3) A description of the method to be used to remove dead plants or animals should these accumulations result in water quality deterioration.
 - 4) A description of the method to be used to retain water in the impoundment while toxic pesticide concentrations exit.
 - 5) A description of the method to be used for detoxification in the event of water supply contamination.
 - 6) A description of the actions to be taken to insure that tributary streams will not reintroduce the aquatic life being controlled following application of the pesticide. If these actions cannot be taken, state the anticipated frequency of retreatment.
 - 7) A copy of the contingency plan to be followed by water plant operators for emergency water plant shut down or emergency operation.
- i) Water Characteristics and Chemistry
- 1) The expected life of the active ingredient and its decomposition products, considering characteristics of the water such as pH, dissolved oxygen and temperature.
 - 2) A list of the limiting chemical constituents of the water to be treated which can hinder the effectiveness of the pesticide.
 - 3) A list of the short term and chronic effects of the pesticide on people and animals.
 - 4) A description of the weather and stream flow conditions under which the pesticide must be applied.
 - 5) A list of the references used to obtain information for the preceding subsection (i)(1) through (4) of this Section.
- j) Pesticide Dosage and Concentration

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- 1) A list of the pesticide dosage.
 - 2) A list of the concentration of the pesticide in the water immediately after application
 - 3) A copy of the computations used to determine the concentration.
- k) Stream and Impoundment Data
- 1) Streams
 - A) the stream flow expected during pesticide application.
 - B) when stream flows are not available, data on high, average and low stream flow conditions; and
 - C) Specify quantity of discharge in cubic feet per second and average stream velocity in feet per second.
 - 2) Impoundments
 - A) the surface area, average depth, maximum depth and volume.
 - B) the flow expected into and out of the impoundment during the time the pesticide will be active, including the flows attributed to contributing streams, flow over the spillway and water withdrawn by individual users.
 - C) information pertinent to the segment in questions when only part of the impoundment will be treated.
 - D) a depiction of the water flow patterns to the water supply intake on a sketch of the impoundment.
 - E) an estimate of the minimum time required for the aquatic pesticide to reach the intake.
 - 3) List the reference sources or the name and qualifications of the person supplying stream flow and impoundment data.
- l) Additional Information and Reports

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- 1) Additional information must be provided to the Agency upon request to assure the safety of a community water supply as required by 35 Ill. Adm. Code 302.210.
- 2) A report letter must be filed with the Agency within 30 days following each application of the aquatic pesticide. The report shall include but not be limited to:
 - A) the names and addresses of applicant and applicator;
 - B) the aquatic pesticide application permit number;
 - C) the date of aquatic pesticide application;
 - D) the name and amount of aquatic pesticide applied; and
 - E) a description of any mishap which endangered a community water supply including a chronology of the steps taken to correct the problem.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 602.510 Permits Under Public Health Related Emergencies

The Agency may issue Aquatic Pesticide Permits by telephone whenever public health is immediately endangered by an aquatic pest such as a disease-carrying organism. Aquatic Pesticide Permits issued by telephone shall have special conditions for safeguarding downstream public and food processing water supplies.

- a) The Agency must confirm in writing the granting of an emergency Aquatic Pesticide Permit within ten days of issuance.
- b) A written report containing the same information required for a permit application under Section 602.505 of this Part shall be made to the Agency within 30 days following pesticide application.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 602.515 State Agency Programs

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The Departments of Public Health, Natural Resources and Agriculture may place on file with the Agency information required by Section 602.505(h), (i) and (j) for reference in future permit applications.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 602.520 Extension of Permit Duration

The Agency may extend the duration of an Aquatic Pesticide permit when circumstances beyond the control of the applicant prevent the aquatic pesticide application during the time specified in the permit.

- a) All requests for extensions of permit duration shall:
- 1) be in writing;
 - 2) list the reason(s) the aquatic pesticide could not be applied on the date permitted;
 - 3) give the new date the aquatic pesticide is to be applied
 - 4) contain a statement that the aquatic pesticide will be applied in accordance with the conditions listed in the Aquatic Pesticide Permit; and
 - 5) contain the Aquatic Pesticide Permit Number, the name and Illinois Department of Agriculture license number of the applicator and the signature of the applicant.
- b) Requests for extensions of permit duration may be made by telephone provided:
- 1) the information listed in (a) above is stated; and
 - 2) the information listed in (a) above is transmitted in writing to the Division of Public Water Supplies Permit Section within five days of the date verbal approval for an extension of permit duration is given by the Agency.
- c) Applications for extensions of permit duration shall not be granted if more than two months have elapsed from the date of aquatic pesticide application listed in the permit.

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- d) Extensions of permit duration, if granted by the Agency, shall be in writing, and shall state the time of the extension.

(Source: Added at _____ Ill. Reg. _____, effective _____)

Section 602.APPENDIX A References to Former Rules

The following table is provided to aid in referencing former Board rule numbers to section numbers pursuant to codification.

Chapter 6: Public Water Supplies	35 Ill. Adm. Code Part 602
Part II: Permits	Part 602
Rule 201	Section 602.101
Rule 202	Section 602.102
Rule 203	Section 602.103
Rule 204	Section 602.108
	Section 602.109
	Section 602.110
Rule 205	Section 602.107
Rule 206	Section 602.111
	Section 602.112
Rule 207	Section 602.105
Rule 208	Section 602.113
Rule 209	Section 602.116
Rule 210	Section 602.114
Rule 211	Section 602.118
Rule 212	Section 602.115
Rule 213	Section 602.104
Rule 214	Section 602.119
Rule 215	Section 602.120