INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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PERMIT FOR PUBLIC WATER SUPPLY CONSTRUCTION

Mr. Greg Myroth, Principal Engineer
AMEC Environment & Infrastructure, Inc.
8901 N Industrial Road
Peoria, IL 61615

WS-10897	JUL 11 2012	Patrick Carroll, Chief Drinking Water Branch Office of Water Quality
Permit Number	Date Issued	

You are hereby notified that the Office of Water Quality has approved the general design of plans and specifications of water works improvements to the South Richland Conservancy District public water system (PWSID 5225004). This is to serve water to an additional 34 customers. This Permit is issued under provisions of Indiana Code (IC) 13-15, IC 13-18-16, 327 Indiana Administrative Code (IAC) 8-3, and 327 IAC 8-4-1.

Pursuant to IC 13-15-5-3 and IC 4-21.5-3-4(d), this Permit is effective on the date issued.

The project consists of the installation of approximately 18,630 feet of 4 inch and 6 inch polyvinyl chloride and polyethylene pipe, the construction of a booster pump station equipped with three pumps, each rated 99.9 gallons per minute at 57.1 feet total dynamic head, and the construction of a sodium hypochlorite feed system, together with all the necessary appurtenances.

This Permit is issued with the following conditions:

1. That the permittee notify, in writing, Sherri Winters, Permit, Certification & Capacity Section Chief, a minimum of ten (10) days, excluding Saturdays, Sundays, and State of Indiana holidays, before exercising a permit issued in accordance with 327 IAC 8-3. The notification must include the construction permit number assigned, the location of the construction, a description of the construction, anticipated duration of the construction, and the phone number of the permittee or permittee's representative who will be present during the construction;

2. That the public water system not willfully introduce, permit, or suffer the introduction of a direct additive or indirect additive into the drinking water that does not meet the requirements of 327 IAC 8-1 or 327 IAC 8-3;

3. That the facility be designed, constructed, installed, and operated in such a manner that it will not violate any of the sanitary or health regulations or requirements existing at the time of application for the permit;

4. That the facility conform to the design criteria in the 2007 Edition of the "Recommended Standards for Water Works" established by the Great Lakes - Upper Mississippi River Board of State Public Health and Environmental Managers, the American Water Works Association (AWWA) standards, or is based on such criteria which the applicant shows will produce drinking water of satisfactory quality and normal operating pressure at the peak operating flowrate in accordance with 327 IAC 8-3;

5. That the facility will conform to any additional requirements to produce consistently satisfactory results;

6. That the possession of any permit authorized by 327 IAC 8-3 not be construed to authorize the holder of the permit to violate any law of the State of Indiana or rule;

7. That after the commissioner has granted a construction permit, no changes in the application, plans, or specifications be made other than changes involving the replacement of equipment of similar design and capacity, none of which will change adversely the plant operation, its hydraulic design or waste products, or the distribution system design, operation, or capacity without first submitting in writing to the commissioner a detailed statement of such proposed changes and receiving an amended construction permit from the commissioner. Construction permits shall become void if the construction is not started within one (1) year from the date of issuance of the permit unless the duration of the permit has been extended by the commissioner after receiving a written request from the permittee, prior to the expiration of the permit, requesting such extension with no other changes to the permit, application, plans, or specifications as approved by the commissioner;

8. That at a flowrate equal to the peak daily customer demand as determined in 327 IAC 8-3.3-2, the normal operating pressure in the water main not be less than twenty (20) psi under all conditions of flow at the ground level at all points in the water main when demonstrated in conformance with 327 IAC 8-3.2-11(c);

9. That all easements for water main rights-of-way prohibit the construction of any permanent structure over the water main and also provide enough access for maintenance with modern mechanical equipment;

10. That there be no connection between the distribution system and any pipes, pumps, hydrants, or tanks whereby unsafe water or other contaminating materials may be discharged or drawn into the system;

11. That water mains going under surface water bodies greater than fifteen (15) feet in width at the crossing point be constructed with watertight, flexible joints, have valves placed at both ends of the surface water body that are accessible from the ground surface and not subject to flooding, and have the upstream valve installed in a manhole structure or meter pit, with permanent taps made on each side of the valve in the manhole structure or meter pit to allow insertion of a leakage meter and to allow for sampling purposes;

12. That all polyvinyl chloride pressure water mains and their accessories be received, handled, stored, installed, and prepared for use in accordance with the provisions of American Water Works Association (AWWA) Standard C605-94. If an AWWA Standard is not available for the particular installation, the manufacturer's recommended installation procedure must be followed;

13. That the polyethylene pressure pipe and fittings, four (4) inches through sixty-three (63) inches, meet the requirements of American Water Works Association Standard C906-07;

14. That sample taps be provided so that water samples can be obtained from each water source and from appropriate locations in each unit operation of treatment to facilitate collection of water samples for both bacteriologic and chemical analyses. Taps must be consistent with sampling needs and must not be of the petcock type. Taps used for obtaining samples for bacteriological analysis must be of the smooth-nosed type without interior or exterior threads, must not be of the mixing type, and must not have a screen, aerator, or other such appurtenance;

15. That all automatic controls be designed to allow override by manual controls;

16. That the pump station be graded so as to lead surface drainage away from the station;

17. That the pump station be protected against vandalism and entrance by animals or unauthorized persons;

18. That the pump station have adequate space for the installation of additional units if needed, and for the safe servicing of all equipment;

19. That the pump station provide a suitable outlet for drainage from pump glands without discharging onto the floor. All floors must be drained in such a manner that the quality of the potable water will not be endangered. All floors must slope at least three (3) inches in every ten (10) feet to a suitable drain;

20. That with any pump out of service, the remaining pump or pumps be capable of providing the maximum pumping demand of the system;

21. That the pumps have ample capacity to supply the peak demand against the required distribution system pressure without dangerous overloading;

22. That each booster pump have a bypass line;

23. That all safety, first aid, accidental release, handling, storage, and disposal measures outlined in the manufacturer's Material Safety Data Sheets for the sodium hypochlorite be followed;

24. That the sodium hypochlorite be applied to the water at such points and by such means as to assure maximum efficiency of treatment, assure maximum safety to the consumer, provide maximum safety to operators, assure satisfactory mixing of chemicals with the water, and prevent backflow or back-siphonage between multiple points of feed through common manifolds;

25. That provisions be made to measure the amount of sodium hypochlorite added (either the amount of dry chemicals or the gallons of liquid used) and that this number be recorded on the monthly report of operation;

26. That the liquid chemical storage tanks have liquid level indicators or that there be a means to measure the liquid level in the solution tanks and that they have an overflow and a receiving basin capable of receiving accidental spills or overflows; and,

27. That all wells, pipes, tanks, and equipment which can convey or store potable water be disinfected in accordance with American Water Works Association Standard C653-03 and produce bacteriologically satisfactory water in two (2) successive sets of samples collected at twenty-four (24) hour intervals before the new pumps are released for use. The plans and/or specifications must outline the procedure and include the disinfection dosage, contact time, and method of testing the results of the procedure.

Plans and specifications entitled South Richland Old US Highway 31 Water Main Extension, certified by David K. Kuehnen, P.E., were submitted by AMEC Environment & Infrastructure, Inc., on June 1, 2012.

This Permit shall become void if construction is not started by July 2013. Any fundamental change in plans or specifications which may affect drinking water quality, operations, or public health must be submitted for review and approval by this agency.

This Permit may be modified, suspended, or revoked for cause including, but not limited to the following:

1. Violation of any term or condition of this Permit; or,

2. Obtaining this Permit by misrepresentation or failure to fully disclose all relevant facts.

Nothing herein shall be construed as guaranteeing that the proposed public water supply facility shall meet standards, limitations or requirements of this or any other agency of state or federal government, as this agency has no direct control over the actual construction and operation of the proposed project.

Any person adversely affected or aggrieved by this decision authorizing construction of this facility may request a review, provided that a petition for administrative review is filed as required by IC 4-21.5-3-7. The petition must be filed within eighteen (18) days of the mailing date of the Permit. The petition must include facts demonstrating that the petitioner is the applicant, a person aggrieved or adversely affected by this decision or a person otherwise entitled to review by law.

If a petition for review is filed within eighteen (18) days of the mailing date of the Permit and a petition for stay of effectiveness of the Permit is filed by a party or another person who has a pending petition for intervention in the proceeding, an environmental law judge shall, as soon as practicable, conduct a preliminary hearing to determine whether the permit should be stayed in whole or in part. The burden of proof in the preliminary hearing is upon the person seeking the stay per IC 4-21.5-3-4.

Additionally, IC 13-15-6-2 requires that a petition include:

1. The name and address of the person making the request;

2. The interest of the person making the request;

3. Identification of any persons represented by the person making the request;

4. The reasons, with particularity, for the request;

5. The issues, with particularity, proposed for consideration at the hearing; and,

6. Identification of the Permit terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of law governing permits of the type granted or denied by the Office of Water Quality.

Pursuant to IC 4-21.5-3-1(f), any document serving as a petition for review or review and stay must be filed with the Office of Environmental Adjudication. The filing of such a petition is complete on the earliest of the following:

1. The date on which the petition is delivered or the date of the postmark on the envelope containing the petition, if the petition is mailed via United States Postal Service addressed as follows:

   Office of Environmental Adjudication
   100 North Senate Avenue
   Government Center North
   Room 501
   Indianapolis, Indiana 46204

   or,

2. The date on which the petition is deposited with a private carrier, as shown by a receipt issued by the carrier, if the petition is sent by private carrier.

In order to assist the permit staff in tracking appeals, we request that you submit a copy of your petition to Patrick Carroll, Chief of the Drinking Water Branch, OWQ Drinking Water Branch - Mail Code 66-34, 100 N. Senate Ave., Indianapolis, Indiana 46204-2251.

If you do not object to this Permit, you do not need to take any further action. If you have any questions regarding this matter, please contact Mr. Arnold Bockrand, Permit Review Engineer, Office of Water Quality, at 317/234-7419.

cc: Fulton County Health Department
Lambda Mort, IDEM Field Inspection (electronic copy)
Liz Melvin, Chief, Field Inspection (electronic copy)
Curt Gassert, URC (electronic copy)

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