

October 5, 2023

Mr. Michael Marr
Encina Fort Union LLC
418 Railroad Drive, Suite 101
Danville, PA 17821

Re: Noncommunity Water System Approval
Encina Fort Union LLC Nontransient Noncommunity Water System
PWSID No. 4490319; eFACTS AUTH ID 1440439
Point Township, Northumberland County

Dear Mr. Marr:

The Department of Environmental Protection (Department) has completed its review of the Noncommunity Water System Application (NCWSA), received on May 4, 2023 and subsequent submission, received on September 12, 2023. The applicant requested permission to construct a new nontransient noncommunity public water system, including Well NP-1, sodium hypochlorite disinfection/oxidation, greensand filtration, 1,500 gallon chlorine contact tank, 19,820 gallon finished water storage tank, and distribution system. Based on the information provided in your NCWSA, the system appears to meet the minimum design requirements. The approved modifications are included in "Attachment A: Construction/Modifications" of this letter.

Special Conditions of Approval

1. The maximum instantaneous pumping rate from Well NP-1 shall not exceed 35 gallons per minute (gpm). Note that the treatment facilities, as designed, only allow a maximum pumping rate of 30 gpm.
2. The maximum instantaneous flow rate through the 1500-gallon detention tank (with five intrabasin baffles) shall not exceed 30 gpm and the minimum contact tank volume shall not be less than 780 gallons to maintain a minimum of 20 minutes of contact time at the entry point. The theoretical superior baffling factor for the detention tank is 0.7.
3. Sodium Hypochlorite used in the treatment system shall be NSF Standard 60 certified.
4. The Public Water System shall monitor *daily* for free chlorine residual at the entry point when in operation. A detectable chlorine residual is required. Records of chlorine residual monitoring shall be kept onsite for a minimum of five years and made available to the Department upon request.
5. A water quality complaint log, equipment maintenance records, and chemical usage log shall be maintained onsite. These logs and records shall include the amount (gallons per day or inches per day) and mixing ratio of sodium hypochlorite fed daily. Records shall be kept for a minimum of five years and shall be made available to the Department upon request.

6. The Public Water System shall collect finished water samples from the entry point *once per calendar year quarter*. The samples shall be analyzed by a Department-accredited laboratory for total iron and total manganese and reported to the Department.
7. The Public Water System shall notify the Department within one (1) hour following discovery or receipt of any sample result of the finished water which exceeds 0.3 mg/L of manganese.
8. The Public Water System shall collect raw water samples from Well NP-1 at least *once per calendar year*. The samples shall be analyzed by a Department-accredited laboratory for total iron and total manganese and reported to the Department.
9. The Public Water System shall monitor and record the free chlorine at least *daily* at the sample tap on the filter effluent. The minimum free chlorine residual shall not be less than 0.2 mg/L. If the free chlorine residual falls below 0.2 mg/L, the Public Water System shall perform an investigation to determine the cause and take appropriate corrective actions. The Public Water System shall document all sample results and corrective actions in the operator's logbook/.
10. With one unit out of service, the maximum allowable surface loading rate of the Greensand Plus filtration system is 9.5 gpm/ft², which equates to a maximum flow rate of 30 gpm per vessel. With both filters in operation, the routine surface loading rate of the Greensand Plus filtration system is 4.8 gpm/ft², which equates to a routine flow rate of 15 gpm per vessel.
11. The minimum backwash flow rate through the filter vessels shall be 38 gpm per vessel (loading rate of 12 gpm/ft²). Filter run time or volume throughput shall be recorded prior to each backwash. This data shall be kept for at least three years and shall be submitted to the Department for review upon request.
12. Prior to operation, the contact tank and finished water storage tank shall be properly disinfected in accordance with [25 PA Code Chapter 109.711](#) of the Safe Drinking Water regulations and the most recent procedures established by the American Water Works Association (AWWA). Water from the tanks shall be tested for total coliforms in accordance with AWWA standards. The samples shall be analyzed by a Department-accredited laboratory. Copies of the satisfactory microbiological test results shall be submitted to the Department.

Please note that the approval is valid only for the modifications listed above, which the Department has determined conform to 25 Pa. Code Chapter 109 and the Noncommunity System Design Standards. If any additional modifications are planned, or if any of the modifications listed in Attachment A need to be altered, please contact the Department prior to installation. Substantial modifications require the submittal and approval of a new application and accompanying plans and specifications prior to modification. Attachment A: Construction/Modification has been included with this approval letter, specifying the approved public water system facilities.

Upon completion of installation, a field inspection should be performed by the Department to verify that the modifications were completed in accordance with Chapter 109 and/or the Noncommunity Design Standards. Therefore, the Department requests notification within two (2) business days of project completion, so that the inspection can be scheduled.

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board) pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board
Rachel Carson State Office Building, Second Floor
400 Market Street
P.O. Box 8457
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800-654-5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time period. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at <http://ehb.courtapps.com> or by contacting the Secretary to the Board at 717.787.3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717.787.3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.

If you have any questions, please contact Anna Barrick of this office at abarrick@pa.gov or 570.327.3731.

Sincerely,



Chad J. Miller, P.E.
Environmental Program Manager
Safe Drinking Water Program

cc: Richard Henry, P.G. (Email)
Mike Hess, RCSOB (Email)
Jeff Schultz, RCSOB (Email)
Casey Silver (Email)
File

MICHAEL MARR
ENCINA FORT UNION LLC
418 RAILROAD DRIVE SUITE 101
DANVILLE PA 17821
mmarr@encina.com

RICHARD HENRY PG
MEISER AND EARL INC
2730 CAROLEAN INDUSTRIAL DR SUITE 100
ST COLLEGE PA 16801
rhenry@meiser-earl.com