

Land and Materials Administration • Resource Management Program

**Information Required as Part of Sewage Sludge Utilization (SSU)
Permit Application for Treatment by a Process to Further Reduce
Pathogens (PFRP)**

The SSU Permit Application for the treatment of sewage sludge must include a description of the treatment method, the source of sewage sludge, the quantity of sewage sludge, and a map showing the location of the treatment facility. After a preliminary review, the Department will specify the additional information necessary to evaluate the project and complete the application.

Please submit (1) original and (5) copies of the following info:

1. A completed SSU Permit Application Form (with appropriate fee) dated not more than six months prior to submission of the application.
2. Tax maps and liber and folio numbers.
3. Site-specific topographical map min scale 1 ins = 200 feet and a contour interval of not more than 5 feet showing the aerial extent of the site, the property boundaries, the exact acreage of the facility location of all buffer zones, and surrounding land uses.
4. Site-specific geologic and hydro-geologic info as required by the Department to ensure that the treatment facility does not constitute a threat to ground or surface waters of the State.
5. Detailed discussion of the method(s) to be used for the protection of the ground water, such as leachate control or natural attenuation. A proposed program for monitoring the chemical quality of the ground water and surface waters on the site including the depth and location of monitoring wells if applicable.
6. Location of the 100-year flood plain if applicable
7. Detailed design calculations, engineering plans and specifications
8. Evidence that the treatment process meets the Departments standards for a **PFRP** (this includes the most recent facility operational records for a minimum of one year, **if available**, and representative samples for pathogens and metals of the treated sewage sludge for the last year, **if available**).

9. Results of laboratory analysis of a representative sample of the sewage sludge, which were obtained not more than six months before submission of the SSU Permit Application. The analysis must include, as a minimum, percent solids, pH, and the dry weight concentration of total Kjeldahl nitrogen, ammonium nitrogen, nitrate nitrogen, total phosphorous, total potassium, cadmium, copper, mercury, nickel, lead, zinc and PCBs. The Department may require the analysis of other parameters if considered necessary.
10. A detailed description of the treatment process and procedures to be employed to control odors (this must be included in the facility's Operation and Maintenance (O&M) Manual), and name of all sewage sludge sources received and treated by a **PFRP** process at this facility.
11. Quality control monitoring plans demonstrating how **PFRP** and heavy metal standards are met, how they are measured and records are kept, and what happens to sewage sludge not meeting these standards.
12. A description of the record keeping and reporting system to include results of all tests performed as a part of the quality control program and procedures for regular reporting of this information to the Department.
13. A description of the sampling procedures. The information must include areas where the samples will be collected/extracted from, number of samples to be taken and sampling frequency, chain of custody, and type and method of analyses that will be conducted.
14. A description of the startup of operations, a plan for calculating additives/sewage sludge ratios, sampling procedures for temperature and pH, and a method for utilizing the product generated in the trial operation.
15. Plans for storage and final utilization of the treated sewage sludge during both normal operation and in emergency situations.
16. Contingency or emergency plans.
17. Any other relevant information requested by this Department or required by the SSU Permit Application.

Please be advised that out of state facilities that do not have a valid Maryland SSU Permit for treatment may have to submit additional information or meet additional requirements for distribution of a PFRP treated sewage sludge in Maryland.

Questions or for additional information, please call the Department at (410) 537-3314