

WAC 173-240-130 Engineering report. (1) The engineering report for an industrial wastewater facility must be sufficiently complete so that plans and specifications can be developed from it without substantial changes. Two copies of the report must be submitted to the department for approval.

(2) The engineering report shall include the following information together with any other relevant data as requested by the department:

- (a) Type of industry or business;
- (b) The kind and quantity of finished product;
- (c) The quantity and quality of water used by the industry and a description of how it is consumed or disposed of, including:
 - (i) The quantity and quality of all process wastewater and method of disposal;
 - (ii) The quantity of domestic wastewater and how it is disposed of;
 - (iii) The quantity and quality of noncontact cooling water (including air conditioning) and how it is disposed of; and
 - (iv) The quantity of water consumed or lost to evaporation.
- (d) The amount and kind of chemicals used in the treatment process, if any;
- (e) The basic design data and sizing calculations of the treatment units;
- (f) A discussion of the suitability of the proposed site for the facility;
- (g) A description of the treatment process and operation, including a flow diagram;
- (h) All necessary maps and layout sketches;
- (i) Provisions for bypass, if any;
- (j) Physical provision for oil and hazardous material spill control or accidental discharge prevention or both;
- (k) Results to be expected from the treatment process including the predicted wastewater characteristics, as shown in the waste discharge permit, where applicable;
- (l) A description of the receiving water, location of the point of discharge, applicable water quality standards, and how water quality standards will be met outside of any applicable dilution zone;
- (m) Detailed outfall analysis;
- (n) The relationship to existing treatment facilities, if any;
- (o) Where discharge is to a municipal sewerage system, a discussion of that system's ability to transport and treat the proposed industrial waste discharge without exceeding the municipality's allocated industrial capacity. Also, a discussion on the effects of the proposed industrial discharge on the use or disposal of municipal sludge;
- (p) Where discharge is through land application, including seepage lagoons, irrigation, and subsurface disposal, a geohydrologic evaluation of factors such as:
 - (i) Depth to groundwater and groundwater movement during different times of the year;
 - (ii) Water balance analysis of the proposed discharge area;
 - (iii) Overall effects of the proposed facility upon the groundwater in conjunction with any other land application facilities that may be present;
- (q) A statement expressing sound engineering justification through the use of pilot plant data, results from other similar installations, or scientific evidence from the literature, or both, that

the effluent from the proposed facility will meet applicable permit effluent limitations or pretreatment standards or both;

(r) A discussion of the method of final sludge disposal selected and any alternatives considered with reasons for rejection;

(s) A statement regarding who will own, operate, and maintain the system after construction;

(t) A statement regarding compliance with any state or local water quality management plan or any plan adopted under the Federal Water Pollution Control Act as amended;

(u) Provisions for any committed future plans;

(v) A discussion of the various alternatives evaluated, if any, and reasons they are unacceptable;

(w) A timetable for final design and construction;

(x) A statement regarding compliance with the State Environmental Policy Act (SEPA) and the National Environmental Policy Act (NEPA), if applicable;

(y) Additional items to be included in an engineering report for a solid waste leachate treatment system are:

(i) A vicinity map and also a site map that shows topography, location of utilities, and location of the leachate collection network, treatment systems, and disposal;

(ii) Discussion of the solid waste site, working areas, soil profile, rainfall data, and groundwater movement and usage;

(iii) A statement of the capital costs and the annual operation and maintenance costs;

(iv) A description of all sources of water supply within two thousand feet of the proposed disposal site. Particular attention should be given to showing impact on usable or potentially usable aquifers.

[Statutory Authority: RCW 90.48.110. WSR 00-15-021 (Order 00-09), § 173-240-130, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. WSR 83-23-063 (Order DE 83-30), § 173-240-130, filed 11/16/83. Statutory Authority: RCW 90.48.110. WSR 79-02-033 (Order DE 78-10), § 173-240-130, filed 1/23/79. Formerly chapter 372-20 WAC.]