

BREMERTON-KITSAP COUNTY HEALTH DISTRICT

DRINKING WATER PROGRAM

POLICY/PROCEDURE

Title:	Health District Review Process Using Kitsap County Critical Areas Ordinance
Reference:	Kitsap County Ordinance No. 170-1994 Critical Areas Ordinance
Effective Date:	April 7, 1998
Supersedes:	August 20, 1997
Approved:	Drinking Water Program Manager

BACKGROUND:

The comprehensive plan for Kitsap County is required under RCW 36.70A.040 to consist of components which shall provide for the protection of the quality and quantity of groundwater used for public water supplies. The Critical Areas Ordinance 170-1994 is that component which was implemented under emergency rules on December 29, 1994 to satisfy that element of the comprehensive plan.

PURPOSE:

Section 600 of the referenced ordinance deals with critical aquifer recharge areas and the criteria which the Health District must use to evaluate land use applications and their potential threat to groundwater contamination. A critical aquifer recharge area is a geographical area which provides the recharge to an aquifer(s) which is a potable water source and due to its geological properties, is highly susceptible to the introduction of pollutants, or because of special circumstances, has been designated as a critical recharge area, in accordance with WAC 365-190-080 by the County.

PROCEDURE:

Table 5 (page 69 of the ordinance dated February 9, 1998) of the referenced ordinance identifies operations which have the potential to contaminant groundwater. An application is evaluated as to which category (described below) it falls under and whether a hydrogeological report (Section 700 VI, page 80) will be required:

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Category I. Critical Aquifer Recharge Areas

1. Located inside the one year time of travel zone for Group A water systems as calculated using the DOH wellhead protection program criteria.
2. Located in the Hansville aquifer recharge area.
3. Located in the five year time of travel zones for wells which draw its water from an aquifer that is at or above sea level and is overlain by permeable soils listed in Section 18.16.610.B.a. which do not have an underlying protective impermeable layer.

Use the Critical Aquifer Recharge Area maps generated by the KPUD to determine if the project is located in area with high infiltration soils or will be located within 1 or 5 year time of travel zone.

Use the well log viewer program to determine the number of private wells which are 1/2 mile radius from the proposed land use activity. Determine whose service area the proposed project will be located and discuss any concerns they might have with the project as it relates to their wellhead protection program.

Land uses identified in Table 5 are prohibited under this category. Requests for wavier shall include a hydrogeological report which includes a detailed risk-benefit analysis that considers credible, worst case scenarios.

Document your review in a memo to OnSite which can then be incorporated in the over all Health District comments of the project to the county. For an example see the Hill Top Industrial Park and the Cambridge Springs projects.

Category II. Aquifer Recharge Areas of Concern

1. Highly permeable soils. Those soils as defined by the US Department of Agriculture, Natural Resource Conservation Service, in the Soil Survey of Kitsap County is available on the Kitsap County GIS.
2. Areas above shallow principal aquifers. See Appendix F, Section 800 for details. Generally this includes principal aquifers in subsurface hydrogeological units Qg1, Qgla, Qg2 and portions of Qg3 that are within 300 feet of the ground surface.
3. Areas with a high concentration of Group B and private domestic wells. Locations with well concentrations of 36 wells or more within 1/2 mile radius of the proposed land use.

Use the Critical Aquifer Recharge Area maps generated by the KPUD to determine if the project is located in area with high infiltration soils or will be located within 1 or 5 year time of travel zone.

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Use the location report under the Drinking Water Program Database to list the Group B water systems. Generate a GIS showing the application location and well theme to plot the location of the Group B water systems which are 1/2 mile radius from the proposed land use activity.

Use the well log viewer program to determine the number of private wells which are 1/2 mile radius from the proposed land use activity. Determine whose service area the proposed project will be located and discuss any concerns they might have with the project as it relates to their wellhead protection area.

Applications proposing operations that are in this category may be required to submit a hydrogeological report or an abbreviated report based on site specific conditions.

Document your review in a memo to OnSite which can then be included in the over all Health District comments of the project to the county. For examples see the following files: Hill Top Industrial Park, Cambridge Springs, Graben Gwenn, Arco (Erlands Point), Ace Plant 4.