

Layer Name: State of Hawaii Recycled Water Use Management Zones

File Name: reuse_mngmnt_zones

Status: Complete

Layer Type: Polygon

Geog. Extent: The State of Hawaii

Projection: Universal Trans Mercator, Zone 4 (Meters)

Datum: NAD 83 HARN

Description: Designate areas where the use of recycled water is restricted, conditional, or unrestricted. Certain sensitive areas that may be potentially impacted by recycled water use are subject to notification and monitoring requirements.

Source: HDOH-Safe Drinking Water Branch well capture zone delineation coverages (various), DLNR – Reserves GIS coverage (reserves.shp), DLNR – Conservation Subzones Coverage (consubzones.shp)

History: Developed as part of the revision to the Reuse Guidelines. This coverage identifies areas where additional testing and notification are needed to protect groundwater, drinking water, and surface and coastal waters to which groundwater discharges. Statewide GIS Program Received from State Dept. of Health, February, 2016

Attributes:

FID	Feature ID	
SHAPE	Feature Geometry	
SQNCE	Integer	Identification number assigned by reuse category
SER_NO	Long Integer	Identification number assigned to each record
ISLAND	Text	The State of Hawaii
GIS_Acre	Numeric	Area of each parcel in U.S. acres
RSRVE_TYPE coverage	Text	Type of reserve based on the classification in the source
NAME	Text	Name of the reserve if given in the source coverage

MANAGEDBY Text Identifies the agency managing the reserve. In the case of drinking water sources a request should be made to HDOH Safe Drinking Water Branch (808)586-4258 or sdwb@doh.hawaii.gov

REUSE Text Management category for land application of recycled water.

Unrestricted Areas

Unrestricted areas include all areas not designated as *Restricted* or *Conditional*.

Conditional Areas

Conditional areas include drinking water sources within a

- drinking water source Capture Zone Delineation,
- forest reserve, and
- protected conservation district, excluding those designated under *Restricted Areas*.

Conditional areas are subject to the following requirements:

- Notification of agencies or entities such as a drinking water purveyor, forest reserve manager, or protected conservation district manager who are involved with or connected to a potentially impacted zone.
- Chemical analysis of designated constituents from treatment plants supplying more **than** 10,000 gallons per day of recycled water.

Restricted Areas

Restricted areas include drinking water sources which draw water from the top of a water table, making them more vulnerable to degradation. These areas include areas within a specific capture zone delineation (CZD) or areas considered to be protected reserves:

- Zone B CZD for public drinking water sources that draw water from a shaft excavated along the surface of the water table where groundwater travel to the shaft is two years or less.
- Areas within a 1,000 foot radius of zones designated as a Ground Water under the Direct Influence (GWDUI) of surface water.
- Within 1,000 ft. of protected reserves including wetlands, ponds, or enclosed bays.

Requirements for restricted areas include:

- Notification of agencies or entities such as a drinking water purveyor, forest reserve manager, or protected conservation district manager who are involved with or connected to a potentially impacted area.
- Chemical analysis of designated constituents from treatment plants supplying more than 10,000 gallons per day of recycled water.
- Hydro-geologic study to predict impact of recycled water.

If results or analyses indicate that the use of recycled water is detrimental to the impacted area, use of recycled water in the area may be prohibited

COMMENT TEXT Any clarifying comments

For additional details on permits and the use of recycled water please consult the *Reuse Guidelines* available from the Hawaii Department of Health Wastewater Branch [(808)586- 4294]. Specific requirements on *Restricted* or *Conditional* areas will follow in Appendix A.2, to be provided at a later date. For current applications to use recycled water over a restricted or conditional area, contact the DOH.

Contact: Hawaii Dept. of Health, Safe Drinking Water Branch,
Source Water Protect Program
(808)586-4258 or sdwb@doh.hawaii.gov

or

The Statewide GIS Program, gis@hawaii.gov, 808-587-2846