

Layer Name: On-Site Sewage Disposal Systems (osds) for the island of Oahu (2008)
File Name: osds_oah (see also osds layers for Hawaii, Kauai, Maui and Molokai)
Status: Complete
Layer Type: Point
Geog. Extent: The island of Oahu (see also osds layers for Hawaii, Kauai, Maui and Molokai)
Projection: Universal Trans Mercator, Zone 4 (Meters)
Datum: NAD 83 HARN

Please note - if you are using data in the [State's web services](#) or downloading from the [State's geoportals](#), the data is served and exported in WGS84 coordinates, although it is stored internally in UTM coordinates.

Description: Approximate location, type, effluent, nitrogen, and phosphorus flux of On-Site Sewage Disposal Systems

Source: Hawaii State Department of Health, May, 2017

History: Developed in 2008 as part of the Hawaii State Department of Health source water protection program to assess the health and environmental risks posed by On-Site Sewage Disposal Systems. Sources: City and County of Honolulu dwelling, sewer system, and TMK data; Hawaii State Department of Health Individual Wastewater System and cesspool data; private wastewater system data, EPA LCC database, Hawaii legislative districts GIS layers.

Note: Please see the following reports for additional information:

Oahu: Human and Environmental Risk Ranking of Onsite Sewage Disposal Systems:

http://health.hawaii.gov/wastewater/files/2015/09/OSDS_OAHU.pdf

Neighbor Islands: Human Health and Environmental Risk Ranking of Onsite Sewage Disposal Systems for the Hawaiian Islands of Kauai, Molokai, Maui and Hawaii - Final

http://health.hawaii.gov/wastewater/files/2015/09/OSDS_NI.pdf

Attribute Descriptions on following pages

Attributes:

FID	Feature ID
SHAPE	Feature Geometry
ACRES	Size of the TMK parcel on which the OSDS is located
TMK8_Num,	Same as TMK_9, below, without the Division/County digit, numeric format
TMK8_Alph,	Same as TMK_9, below, without the Division/County digit, text format
TMK_9	Unique 9 digit Tax Map Key Number, numeric format

1st Digit: Division County

1 = City and County of Honolulu

2nd Digit: Zone

City and County of Honolulu

1 = Honolulu

2 = Honolulu

3 = Honolulu

4 = Koolaupoko

5 = Koolauloa

6 = Waialua

7 = Wahiawa

8 = Waianae

9 = Ewa

3rd Digit: Section

4th-6th Digits: Plat

7th – 9th Digits: Parcel

TYPE

Type of OSDS:

Aerobic: An aerobic treatment system discharging to a seepage pit

Cesspool: Wastewater is discharged directly to a seepage pit with no treatment

Multiple: Multiple OSDS with at least two different methods of treatment/disposal

Septic: A septic tank discharging to a seepage pit

Soil_TMT: Any system utilizing soil as a treatment medium

Attributes (continued):

OSDS_CLASS	Wastewater Treatment Plant class (Class 1 through 4, see Hawaii Administrative Rules, Title 11, Chapter 61) I: Any system utilizing soil as a treatment medium II: A septic tank discharging to a seepage pit III: An aerobic treatment system discharging to a seepage pit IV: Wastewater is discharged directly to a seepage pit with no treatment Multiple: Multiple OSDS with at least two different methods of treatment/disposal
X	X coordinate of the approximate location of the OSDS based on the centroid of the TMK Parcel. UTM NAD 83 Zone 4 meters (Note X and Y coordinates in this table are in NAD 83, NOT NAD 83 HARN – these X and Y values were calculated before the State converted to NAD 83 HARN)
Y	Y coordinate of the approximate location of the OSDS based on the centroid of the TMK Parcel. UTM NAD 83 Zone 4 meters (Note X and Y coordinates in this table are in NAD 83, NOT NAD 83 HARN – these X and Y values were calculated before the State converted to NAD 83 HARN)
SOIL_QTY	The number of Class I OSDS in the TMK parcel
SOIL_N	The concentration of nitrogen in the effluent (mg/L), Class I systems
SOIL_P	The concentration of phosphorus in the effluent (mg/L), Class I systems
SOIL_FC	The concentration of fecal coliform bacteria in the effluent (colony forming units per 100 ml), Class I systems
SOIL_EFF	The flux of effluent (gallons/day) for Class I systems
SOIL_NFLX	The flux of nitrogen (Kg/d) for Class I systems
SOIL_PFLX	The flux of phosphorous (Kg/d) for Class I systems
ST_QTY	The number of Class II OSDS in the TMK parcel
ST_N_1	The concentration of nitrogen in the effluent (mg/L), Class II systems
ST_P_1	The concentration of phosphorus in the effluent (mg/L), Class II systems
ST_FC_1	The concentration of fecal coliform bacteria in the effluent (colony forming units per 100 ml), Class II systems
ST_EFF_1	The flux of effluent (gallons/day) for Class II systems
ST_NFLX_1	The flux of nitrogen (Kg/d) for Class II systems
ST_PFLX_1	The flux of phosphorous (Kg/d) for Class II systems
AU_QTY	The number of Class III OSDS in the TMK parcel
AU_N	The concentration of nitrogen in the effluent (mg/L), Class III systems
AU_P	The concentration of phosphorus in the effluent (mg/L), Class III systems

Attributes (continued):

AU_FC	The concentration of fecal coliform bacteria in the effluent (colony forming units per 100 ml), Class III systems
AU_EFF	The flux of effluent (gallons/day) for Class III systems
AU_NFLX	The flux of nitrogen (Kg/d) for Class III systems
AU_PFLX	The flux of phosphorous (Kg/d) for Class III systems
CP_QTY	The number of Class IV OSDS in the TMK parcel
CP_N	The concentration of nitrogen in the effluent (mg/L), Class IV systems
CP_P	The concentration of phosphorus in the effluent (mg/L), Class IV systems
CP_FC	The concentration of fecal coliform bacteria in the effluent (colony forming units per 100 ml), Class IV systems
CP_EFF	The flux of effluent (gallons/day) for Class IV systems
CP_NFLX	The flux of nitrogen (Kg/d) for Class IV systems
CP_PFLX	The flux of phosphorous (Kg/d) for Class IV systems
TTL OSDS	Total number of OSDS in the TMK parcel
TTL_EFF	The total flux of effluent (gallons/day)
TTL_N	The total flux of nitrogen (Kg/d)
TTL_P	The total flux of phosphorous (Kg/d)
RSK_SCORE	Total OSDS Risk Score for the TMK, see: http://health.hawaii.gov/wastewater/files/2015/09/OSDS_OAHU.pdf
TOWNS	The town or towns in which the parcel falls

Note: This layer is for informational purposes only. Users should contact the State Department of Health (contact info below) for a specific inquiry. Please note this study was conducted several years ago and many properties may have upgraded their cesspool to a septic tank system.

Contact info:

Statewide GIS Program, Office of Planning, State of Hawaii
PO Box 2359, Honolulu, Hi. 96804; (808) 587-2846.
email: gis@hawaii.gov

Robert Whittier
Hawaii State Department of Health, Environmental Management Division
919 Ala Moana Blvd., Suite 300, Honolulu, Hi 96814; (808) 586-4304
email: Robert.Whittier@doh.hawaii.gov