2016 STATE OF HAWAII WATER QUALITY MONITORING AND ASSESSMENT REPORT:
Integrated Report to the U.S. Environmental Protection Agency and the U.S. Congress Pursuant to §303(d) and §305(b), Clean Water Act (P.L. 97-117)

The Hawaii State Department of Health
Clean Water Branch
Honolulu, Hawaii
DRAFT
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<th>Full Form</th>
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<tr>
<td>§</td>
<td>Section</td>
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<td>ADU</td>
<td>Attainment Decision Unit</td>
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<td>BEACH</td>
<td>Beaches Environmental Assessment and Coastal Health</td>
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<td>CCH</td>
<td>City and County of Honolulu</td>
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<td>CCME</td>
<td>Canadian Council of Ministers of the Environment</td>
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<td>CFU</td>
<td>Colony Forming Units</td>
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<td>CWA</td>
<td>Clean Water Act</td>
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<td>Clean Water Branch</td>
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<td>CWRM</td>
<td>Commission on Water Resources Management</td>
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<td>DLMR</td>
<td>Discharge Monitoring Report</td>
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<td>DOFAW</td>
<td>Division of Forestry and Wildlife</td>
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<td>DU</td>
<td>Decision Unit</td>
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<td>EAC</td>
<td>Environmental Assessment Company</td>
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<td>EHASB</td>
<td>Environmental Health Analytical Services Branch</td>
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<td>EMD</td>
<td>Environmental Management Division</td>
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<td>EPA</td>
<td>Environmental Protection Agency</td>
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<td>GM</td>
<td>Geometric Mean</td>
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<td>GPS</td>
<td>Global Positioning System</td>
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<td>HAR</td>
<td>Hawaii Administrative Rules</td>
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<td>HIDOH</td>
<td>Hawaii Department of Health</td>
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<td>HSA</td>
<td>Hawaii Stream Assessment</td>
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<td>IR</td>
<td>Integrated Report</td>
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<td>MCS</td>
<td>Microbiology Consulting Services, LLC</td>
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<td>MRC</td>
<td>Marine Research Consultants, Inc</td>
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<td>NCCM</td>
<td>National Coastal Condition Assessment</td>
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<td>NELHA</td>
<td>Natural Energy Laboratory of Hawaii Authority</td>
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<td>NOAA</td>
<td>National Oceanic and Atmospheric Administration</td>
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<td>NPDES</td>
<td>National Pollutant Discharge Elimination System</td>
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<td>NYSDEC</td>
<td>New York State Department of Environmental Conservation</td>
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<td>PCBs</td>
<td>Polychlorinated Biphenyls</td>
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<td>pH</td>
<td>Power of Hydrogen</td>
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<td>ppt</td>
<td>Parts Per Thousand</td>
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<tr>
<td>QAPP</td>
<td>Quality Assurance Project Plan</td>
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<td>Quality Assurance Program Pan</td>
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<td>QA/QC</td>
<td>Quality Assurance/Quality Control</td>
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<td>QMP</td>
<td>Quality Management Plan</td>
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<td>SLD</td>
<td>State Laboratories Division</td>
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<td>STORET</td>
<td>STOrage and RETrieval</td>
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<td>STV</td>
<td>Statistical Threshold Value</td>
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<tr>
<td>TDP</td>
<td>Total Dissolved Phosphorus</td>
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<td>TDN</td>
<td>Total Dissolved Nitrogen</td>
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<td>TMDL</td>
<td>Total Maximum Daily Loads</td>
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<td>TN</td>
<td>Total Nitrogen</td>
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TP  Total Phosphorus
TSS  Total Suspended Solids
USACE  United States Army Corps of Engineers
USGS  United States Geological Survey
WBP  Watershed Based Plan
WQ  Water Quality
WQC  Water Quality Certification
WQS  Water Quality Standard
EXECUTIVE SUMMARY

The Hawaii State Department of Health (HIDOH) is obligated by the Clean Water Act (CWA) Sections (§) 303(d) and 305(b) to report on the State's water quality on a two-year cycle. The CWA §305(b) requires states to describe the overall status of water quality statewide, and the extent to which water quality provides for the protection and propagation of a balanced population of shellfish, fish, and wildlife, and allows recreational activities in and on the water. The CWA §303(d) requires states to submit a list of waters that do not attain applicable water quality standards, plus a priority ranking of impaired waters for Total Maximum Daily Loads (TMDL) development based on the severity of pollution and the uses of the waters. The 2016 State of Hawaii Water Quality Monitoring and Assessment Report, known as the Integrated Report (IR), meets the requirements for CWA §303(d) and 305(b).

The IR informs the public on the status of marine and inland (streams and estuaries) water bodies and serves as a planning document to guide other CWA programs. The 2016 IR incorporates data collected from November 1, 2013 to October 31, 2015 to provide an updated snapshot of water body conditions throughout the state, and carries over the assessment results from previous IRs. Impaired waters—waters that do not meet the State’s water quality standards (WQS)— in the IR may be targeted for further monitoring activities to develop TMDLs, to plan and evaluate CWA §319 nonpoint source (NPS) pollution control projects, and set requirements for National Pollutant Discharge Elimination System (NPDES) permits and §401 Water Quality Certifications (WQCs). The IR not only identifies areas in need of restoration, but serves as a baseline to validate the State’s efforts to improve water quality and eventually delist impaired waters that have been rehabilitated.

The 2016 IR implements a standardized assessment methodology for marine waters that establishes watershed decision units (DUs) as the basis for listing and delisting decisions. Assessing state surface waters by watershed DUs provides a more uniform geographical reference for existing IR scopes of assessment, and is consistent with Hawaii’s State water goal to implement a watershed-based management approach to protect human and environmental health. This assessment approach is also consistent with the collaborative framework for implementing the CWA Section 303(d) Program—A Long-Term Vision for Assessment, Restoration and Protection under the Clean Water Act Section 303(d) Program (Vision), announced in December 2013.

The 2016 IR assessment methodology recognizes a total of 558 watershed DUs throughout the state, with 544 being coastal watersheds. In this report, a total of 44 coastal decision units (DUs) were assessed on Kauai, Oahu, Lanai and Maui to determine if state waters are supportive of public health while recreating and healthy ecosystems. The parameters assessed in this report include bacteria, turbidity, total suspended solids (TSS), chlorophyll a and nutrients (total nitrogen (TN), nitrate+nitrite-nitrogen (NO₃+NO₂), ammonium-nitrogen (NH₄), total phosphorus (TP), and where applicable, total dissolved nitrogen (TDN), total dissolved phosphorus (TDP) and orthophosphate (PO₄) (HAR Ch. 11-54-6(d)).

Assessment results show that 40 coastal DUs are currently not attaining the State Water Quality Standards (WQS) numeric criteria for at least one or more pollutants. Turbidity was the leading...
cause of impairment, being the sole cause of a new impairment in 90% of the watershed assessments. This trend is similar to what was observed in previous IRs. Nutrients are the second leading cause of water quality exceedances, with 42% of the assessments failing to meet WQS for one or more nutrients.

A majority of the coastal watersheds assessed on Kauai, Oahu and Lanai meet the water quality criteria for nutrients (63%, 75% and 100%, respectively), while 75% of Maui’s coastal watersheds do not currently meet nutrient WQS. Similarly, a majority (83%) of the coastal watersheds assessed in this report are meeting the criteria for chlorophyll $a$. Attainment of chlorophyll $a$ WQS is observed in all assessed watersheds on Kauai, Oahu and Lanai, while only 50% of assessed Maui watersheds attain for chlorophyll $a$. Recreational health water quality criteria was met in 98% of assessed watersheds Kauai, Oahu and Maui (100%, 100% and 91%, respectively).

Over the next five years, the State will focus on its resources on developing a more holistic monitoring plan, and addressing sediment and nutrient impairments in priority watersheds for TMDL development and NPS control projects. The State hopes these efforts will improve water quality and decrease the number of impaired watersheds and waterbodies statewide.
PART A. INTRODUCTION

The purpose of the Integrated Report (IR) is to inform the public of the overall status of water quality statewide, describing the extent to which water quality provides for the protection and propagation of a balanced population of shellfish, fish, and wildlife, and allows recreational activities in and on the water. These reports fulfil the requirements for State reporting pursuant to Clean Water Act (CWA) §303(d) and §305(b), which requires states to provide an assessment every two years on the quality of all their waters (§305(b)), and a list of those waters that are impaired or threatened (§303(d)). This document describes the methodology, datasets and results used to develop the 2016 IR. The report is intended to guide future management actions, provide data for long term trend assessment, and document water quality improvements across the state.

The 2016 IR provides water quality assessment results for both marine and inland waters. The marine assessment results are reported by watersheds decision units where possible, or by individual sampling locations. The assessment period covers a two year time frame (November 2013- October 2015), beginning where the 2014 IR assessment cycle ended (October 2013). As part of the IR process, the HIDOH solicited a request for water quality data that closed on November 1, 2015 via the HIDOH Clean Water Branch (CWB) website and local newspapers. Similarly, a draft of the 2016 IR is being provided for a 30 day public comment period from March 20, 2017 - April 20, 2017. HIDOH responses to the 2016 IR will be provided in a separate document via the CWB website (http://health.hawaii.gov/cwb/).

The 2016 IR document includes background information, a brief overview of the surface water monitoring and assessment program, and subsequent chapters describing the assessment methodologies and results used to determine the status of marine and inland waters. Chapter 1 describes the assessment methodology and results for marine waters, and documents changes since the 2014 IR. The inland water assessment methodology, results and category changes are presented in Chapter 2. Chapter 3 summarizes the current status for all state surface waters in table format.
PART B. BACKGROUND

B.1. Scope of Waters in the Integrated Report
The State of Hawaii contains approximately 303 miles of recreational shoreline, 3,326 miles of rivers and streams, 37 square miles of bays and harbors and 5 square miles of lakes and reservoirs. The health of Hawaii’s inland and marine waters is vital to the communities for subsistence, cultural practices and recreation. The State’s economy is largely dependent on the quality of its shorelines and beaches, which provide opportunities for year round recreational activities.

B.2. Surface Water Pollution Control Program
The HIDOH, CWB is the state agency responsible for protecting and restoring surface water resources for human and environmental health. The CWB’s mission is to protect the public health of residents and tourists who recreate in and on Hawaii’s coastal and inland water resources and to protect and restore coastal and inland waters for marine life and wildlife.

The CWB implements programs delegated from the U.S. EPA in support of the CWA and Hawaii’s goals to protect and restore surface waters to fishable and swimmable standards for the purpose of protecting human and environmental health. The CWA components addressed within the CWB include Water Quality Standards (WQS), Enforcement and Compliance, National Pollutant Discharge Elimination System (NPDES) permits, Water Quality Certifications (WQC), surface water quality monitoring and assessment, Total Maximum Daily Loads (TMDLs) and Polluted Runoff Control. These programs are intended to work in concert to ensure that Hawaii’s surface water resources are protected and restored. Specifically, the state’s objectives include 1) using an integrated approach to assess state water quality, and 2) addressing sources of water pollution through permits, TMDLs and watershed based plans. More information on the responsibilities and organizational structure of the CWB can be found in the HIDOH CWB Quality Assurance Program Plan and on the CWB website.

B.2.1. Hawaii Water Quality Standards
The goals for different types of surface water bodies throughout the State are described in Hawaii’s water quality standards (WQS), Hawaii Administrative Rules (HAR), Title 11, Chapter (Ch.) 54, hereafter WQS. The WQS describe the appropriate uses for each water body, specify the criteria necessary to protect the designated uses, and define a general policy of water quality antidegradation for all water types:

(a) Existing uses and the level of water quality necessary to protect the existing uses shall be maintained and protected.

(b) Where the quality of the waters exceed levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water, that quality shall be maintained and protected unless the director finds, after full satisfaction of the intergovernmental coordination and public participation provisions of the state's continuing planning process, that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located. In allowing such degradation on lower water quality, the director shall assure water quality adequate to
protect existing uses fully. Further, the director shall assure that there shall be achieved the highest statutory and regulatory requirements for all new and existing point sources and all cost-effective and reasonable best management practices for nonpoint source control.

(c) Where existing high quality waters constitute an outstanding resource, such as waters of national and state parks and wildlife refuges and waters of exceptional recreational or ecological significance, that water quality shall be maintained and protected.

(d) In those areas where potential water quality impairment associated with a thermal discharge is involved, the antidegradation policy and implementing method shall be consistent with Section 316 of the Clean Water Act.

The WQS categorize the State’s surface waters as inland or marine waters. Inland waters are comprised of water body types such as streams, estuaries, lakes and reservoirs, wetlands, and anchialine pools. Marine water body types are comprised of embayments, coastal, and oceanic waters and classified into class A and AA (both bounded by 100 fathom contour or 600 foot depth contour). The specific numeric water quality criteria applicable to streams, estuaries, embayments, coastal and oceanic waters form the basis for determining whether a waterbody is meeting its intended uses.

B.3. Special State Concerns and Recommendations

A new framework for implementing the CWA Section 303(d) Program, titled *A Long-Term Vision for Assessment, Restoration, and Protection under the Clean Water Act Section 303(d) Program* (Vision), was announced by the EPA in December 2013. The new program vision is intended to enhance the overall efficiency of the CWA Section 303(d) Program by bringing attention to priority waters and acknowledging that states have other available options besides TMDLs to attain water quality restoration and protection (U.S. EPA 2015). While the vision does not alter the State’s CWA 303(d) regulatory obligations, it allows the states the flexibility to implement its responsibilities in the context of the State’s overall water quality goals.

Hawaii has begun to implement the CWA Section 303(d) Program Vision by identifying its long-term priorities through Fiscal Year 2022, and by using an integrated approach to achieve water quality goals in priority areas. The Waikele watershed on Oahu and the Kahana, Honokahua, and Honolua watersheds in West Maui have been prioritized for restoration to address sediment and nutrient pollution. Using an integrated approach to restore impaired water bodies is consistent with elements of the vision and the State’s objective to address water quality concerns through permits, TMDLs and watershed based plans. Over the next five years the State will focus its 303(d) long term priorities on addressing sediment and nutrient impairments, implementing watershed based plans to reduce polluted runoff in priority watersheds, and developing TMDLs to be implemented.

B.4. Future Monitoring Recommendations

Future monitoring efforts will focus on collecting data for statewide watershed assessments, allowing for a more seamless integration of water body types and surrounding land use. Upcoming reports will continue to utilize State watershed delineations and other geographical attributes as the basis for identifying all waters and defining decision units within the State. Currently, the CWB is in the process of developing GIS maps for the §303(d) impaired waters
list and §305(b) water bodies for marine waters which should be available for public use via the CWB website by the 2018 IR.

PART C. SURFACE WATER MONITORING AND ASSESSMENT OVERVIEW

C.1 Surface Water Monitoring and Assessment
The CWB conducts year round monitoring of surface waters throughout the state to provide data to support BEACH Act requirements, §303(d) and 305(b) assessments, TMDL development, CWA §319 watershed implementation projects. The CWB also participates in statistical survey designs as part of the National Aquatic Resource Surveys sponsored by the EPA, such as the National Reef Flat Assessment that occurred in Kaneohe Bay, Oahu in 2015. This statewide monitoring program maintains staff on Kauai, Oahu, Maui, and Hawaii.

C.2 Assessment Methodology
State surface waters are monitored to determine if water quality conditions support public health while recreating in and on the water (recreational health) and ecosystem health. Recreational health is assessed by enumerating enterococci, the recommended EPA fecal indicator bacteria for coastal recreational waters. Ecosystem health is assessed by comparing nutrients and other parameters to the applicable water quality criteria. The nutrient parameters assessed in this report include total nitrogen (TN), nitrate+nitrite-nitrogen (NO$_3$+NO$_2$), ammonium-nitrogen (NH$_4$), total phosphorus (TP), and total dissolved nitrogen (TDN), and where applicable, total dissolved phosphorus (TDP), orthophosphate (PO$_4$), NO$_3$+NO$_2$ and NH$_4$ (HAR Ch. 11-54-6(d)). Other parameters collected for assessment purposes include chlorophyll a, total suspended solids (TSS) and field parameters such as pH, temperature, turbidity, salinity and conductivity. Chapters 1 and 2 contain more detailed assessment methods specific to marine and inland waters, respectively.

Decisions for listing/delisting water bodies for nutrients, bacteria, and other parameters are based on the quality and quantity of data, water body type and applicable numeric criteria (Figure 1.). A majority of the data assessed in the 2016 IR originated from beach samples collected in near-shore coastal areas, as most of the CWB’s monitoring efforts are currently focused on routine beach monitoring. There was limited inland water monitoring conducted in select watersheds. Additional sources of data considered for the 2016 IR include receiving water quality data from NPDES permitted facilities, private contractors and non- governmental organizations (NGOs) (Appendix A).
**Figure 1.** Flow chart of the listing/delisting process for enterococci, TN, NO$_3$+NO$_2$, NH$_4$, TP, PO$_4$, turbidity, TSS and chlorophyll **a**.
Assessed water bodies are then assigned to categories according to EPA’s 2006 Integrated Water Quality Monitoring and Assessment Report Guidance. The attainment of WQS for one parameter but not another can result in the assignation of one or more categories to a water body.

**Category 1:** All designated uses are supported, no use is threatened;

**Category 2:** Available data and/or information indicate that some, but not all of the designated uses are supported;

**Category 3:** There is insufficient available data and/or information to make a use support determination;

**Category 4:** Available data and/or information indicate that at least one designated use is not being supported or is threatened, but a Total Maximum Daily Load (TMDL) is not needed;

- 4a: A TMDL to address a specific segment/pollutant combination has been approved or established by EPA;
- 4b: A use impairment caused by a pollutant is being addressed by the State through other pollution control requirements;
- 4c: A use is impaired, but the impairment is not caused by a pollutant;

**Category 5:** Available data and/or information indicate that at least one designated use is not being supported or is threatened, and a TMDL is needed.

States are required to obtain and review all existing and readily available State surface water quality data and related information to compare against the State's numeric water quality criteria. Water bodies that attain State numeric water quality criteria are classified in either Category 1 or 2. Water bodies that do not meet State numeric water quality criteria are classified into Category 5 and constitute the CWA §303(d) list of impaired waters. A water pollution reduction plan, or TMDL, is required for water bodies that are impaired or not expected to meet State numeric water quality criteria, even after the application of technology-based effluent limitations in National Pollutant Discharge Elimination System (NPDES) permits. Water bodies that have an approved TMDL are classified into Category 4a. Previously impaired water bodies (Category 5) that currently attain State numeric water quality criteria are “delisted” and reclassified into Category 1 or 2.
CHAPTER 1: MARINE WATERS
PART A. SCOPE OF WATERS

Chapter 1 describes the assessment methodology and results applicable to marine waters as described in Hawaii’s WQS, Hawaii Administrative Rules, Title 11, Chapter 54 (HAR Ch. 11-54). Marine waters are characterized according to water body type: embayments, open coastal and oceanic waters. Previous IRs included estuaries with marine waters in recognition of naturally occurring salinity fluctuations, however because estuaries are categorized as inland waters, the assessment results are reported in Chapter 2 (inland waters) for the 2016 IR. Specific numeric criteria applicable to each water body type are the basis for listing and delisting decisions.

The CWB developed an IR implementation document in response to the challenges resulting from non-uniform scopes of assessment for marine waters in previous IRs. The IR implementation document describes the change from variable scopes of assessment, which may consist of a point, stretch of coastline, or coastal waters contained between two geographical locations, to assessing waters using clearly defined watershed decision units (DUs), reducing the number of duplicate impairment listings. The assessments in the 2016 IR a) establish DUs based on CWB watersheds, b) provide the opportunity to include newly available data from additional sampling stations without creating a new scope of assessment (i.e. beach station, beach segment, etc.) in the IR and c) requires a minimum of 30 samples for IR assessment purposes.

Unlike previous IRs where multiple scopes of assessment for the same waterbody sometimes led to duplicate impairments, the watershed DU is intended to provide the means to assess the overall water quality status and identify any impairments to the waterbody per CWA requirements. These DUs also provide a geographical reference for existing IR scopes of assessment by identifying the associated CWB watershed. To maintain the integrity of previous IR assessments, the scopes of assessment in the 2014 IR are nested within the larger watershed DU implemented in this IR cycle.

A.1. Watershed Decision Units

Hawaii's topographical structure is comprised of short, small watersheds defined by steep mountain walls. Fronting marine waters are largely influenced by streams and groundwater sources located in the associated watershed. Coastal waters, especially near shore marine recreational waters, can be viewed as an extension of the watershed. The CWB has defined specific watershed DUs (referred to as CWB watershed DUs) based on a modified version of the 558 watersheds delineated by the State of Hawaii, DLNR Commission on Water Resources Management (CWRM). Water quality assessments using CWB watershed DUs consider the influence of watershed characteristics (e.g. land use, precipitation, and land-cover) on water quality downstream and in coastal areas. The largest DUs are defined for marine waters at the State watershed scale, while allowing for smaller DUs (i.e. nested scopes of assessment) to be established within the larger framework. The IR assessments are based on marine DUs bounded by State watershed delineations and distance from shoreline. Maps for the CWB DUs are currently under development and are expected to be available for the next IR cycle.
A.1.2. Nested Scopes of Assessment

CWB watershed DUs and nested scopes of assessment are based on the water body types described in the WQS and the premise that water quality in near shore marine recreational waters is likely to be different than waters located offshore. For the purposes and consistency of the IR, nearshore recreational waters will continue to be categorized as coastal waters within 300 m of shoreline and offshore waters beyond 300 m (HAR Ch. 11-54, May 2009).

The nested scopes of assessment for the 2016 IR remain the same as in previous reports. The nested scopes of assessment consist of large stretches of coastline, smaller beach segments, individual sampling stations or multiple sampling stations. The purpose of the nested assessments is to guide pollutant source tracking.

Scopes of assessment not associated with a CWB watershed are assessed individually for attainment or impairment of pollutants for that particular water body. These scopes of assessment consist of water bodies that are beach stations or beach segments that do not have readily available geospatial information to properly locate it within the respective CWB watershed or encompass open coastal waters which are in themselves separate DUs (e.g. NPDES Zone of Mixing).

PART B. ASSESSMENT METHODOLOGY

Decisions for listing/delisting (§303(d)) water bodies are based on the quality and quantity of data, water body type and applicable State WQS. Numerous categories may be applicable to describe the current status of a water body because each DU is assessed for multiple parameters. The attainment of WQS for one parameter but not another, can result in the assignation of one or more categories to a water body.

Data collected in State receiving waters are divided into separate assessment units (nearshore marine recreational, open coastal marine and oceanic) based on water body types described in the WQS and the premise that water quality in near shore waters is likely to be different than waters located offshore.
B.1. Recreational Health Assessment

Recreational health is assessed by enumerating enterococci, the recommended EPA fecal indicator bacteria for marine coastal recreational waters. Bacterial evaluations using enterococcus inform both daily assessments and long term decisions (e.g. the IR) about whether public health is being protected while participating in water contact activities. The presence of enterococci in sufficient numbers “indicates the potential for human infectious diseases” as defined in the CWA §502(23) (U.S. EPA Office of Water 2012). Exceedance of the WQS for enterococci is generally thought to indicate the presence of human fecal contamination and, hence, the presence of pathogens.

Daily assessments using enterococcus are primarily used to support decisions made in the context of the BEACH Act. Recipients of BEACH Act grant funds, such as Hawaii, are required to notify the public when enterococcus levels either exceed or are likely to exceed the applicable water quality standards at specific beach locations. Daily assessments apply to specific beach locations, and not watershed decision units. In Hawaii, the public must be notified when the enterococcus concentrations in any given sample are at or above 130 colony forming units (CFUs)/ 100mL of water.

The long term decisions captured in IR assessments are based on monthly geometric means calculated from data collected from the watershed decision unit over a two year time. Because the intent of the IR is to document water quality conditions across the state for longer time spans, recreational health assessments for the IR use watershed DUs as the basis for attainment decisions where possible. For IR purposes a watershed DU is considered impaired if more than 10% of total samples exceeded the STV value of 130 CFU/100 mL (Table 1).

Revisions to the recreational criteria for all state waters (HAR Ch. 11-54-8, Nov 2014) changed the enterococcus geometric mean (GM) criteria from not exceeding 35 CFU/100 mL in not less than five samples which shall be spaced to cover a period between 25 and 30 days, to not exceeding 35 CFU/100 mL over any 30-day interval. The 2014 WQS revision also replaced the single sample maximum value of 104 CFU/100 mL with the statistical threshold value (STV) of 130 CFU/100 mL. The STV is the value which shall not be exceeded by more than 10% of the samples taken within the same 30-day interval in which the GM is calculated. These revisions are consistent with the EPA’s 2012 Recreational Water Quality Criteria (U.S. EPA Office of Water 2012).

Table 1. Enterococci recreational WQS attainment/non-attainment based on frequency, GM and STV.

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Recreational WQS Attained</th>
<th>Recreational WQS Not Attained (Impaired)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30-day interval</td>
<td>GM ≤ 35 CFU/100 mL</td>
<td>GM &gt; 35 CFU/100 mL</td>
</tr>
<tr>
<td>30-day interval</td>
<td>10% or less of total samples ≤ 130 CFU/100 mL</td>
<td>More than 10% of total samples &gt; 130 CFU/100 mL</td>
</tr>
</tbody>
</table>

B.2. Ecosystem Health Assessment

Ecosystem health assessments are based on a geometric mean calculation of the nutrient and field parameters identified in HAR §11-54-6. Assessments require a minimum of 30 samples to
be collected from State receiving waters within the CWB watershed DU over a two year assessment cycle. The 30 samples may come from multiple stations located within the larger CWB watershed DU and should be representative of seasonal variation where possible. The GM calculation and comparison to nutrient WQS will remain consistent with the 2014 IR. In contrast to the monthly GM used to assess recreational health, ecosystem health assessment is based on one calculated GM for the two year period. In addition, nutrient WQS vary depending on marine water body type, whereas bacterial WQS remain the same for all marine waters (Table 2). For marine waters where transect data are available at multiple depths, data are grouped according to distance from shoreline and combined for assessment decisions.

Table 2. Applicable water body type and WQS for marine water bodies

<table>
<thead>
<tr>
<th>Water Body Type</th>
<th>Description</th>
<th>Recreational WQS</th>
<th>Nutrient WQS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Embayments</td>
<td>As defined in §11-54-6</td>
<td>HAR §11-54-8</td>
<td>Embayment, HAR Ch. 11-54-6 (a)</td>
</tr>
<tr>
<td>Near Shore Marine Recreational Waters</td>
<td>Shoreline to 300 m offshore</td>
<td>HAR §11-54-8</td>
<td>Open Coastal, HAR Ch. 11-54-6 (b)</td>
</tr>
<tr>
<td>Open Coastal Marine Waters</td>
<td>300 m offshore to 183 m (600 ft) depth contour</td>
<td>HAR §11-54-8</td>
<td>Open Coastal, HAR Ch. 11-54-6 (b)</td>
</tr>
<tr>
<td>Oceanic Waters</td>
<td>183 m (600 ft) depth contour to 3 miles offshore</td>
<td>HAR §11-54-8</td>
<td>Oceanic, HAR Ch. 11-54-6 (c)</td>
</tr>
</tbody>
</table>

B.3. Water Body ID (formally Geocode ID)
Two sets of codes exist in the Hawaii structure: a 2-letter alphanumeric (HI) set and 3-letter alphanumeric (HIW) set. The numeric portion of both codes is preceded by the State abbreviation (HI) as per EPA protocol. The 2-letter code is from an existing structure of the EPA’s Beaches Environmental Assessment and Coastal Health (BEACH) program that identifies recreational waters across the State. The 3-letter code is generated in response to areas where BEACH codes do not exist and areas that are divided into small subsections. Each code is comprised of a total of eight characters and is not ordered. Marine geocode IDs listed in previous IRs have been renamed to water body ID in the 2016 IR because they serve as an internal unique identifier and do not relate to geospatial information. Currently, GIS maps for the §303(d) impaired waters list and §305(b) water bodies for marine waters are under development and should be available for public use via the CWB website by the 2018 IR.

B.4. Data Sources
A formal call for data was announced early in 2015 and closed in November 2015. Marine water quality data collected between November 2013 and October 2015 are assessed in this report. Sources of data assessed in this report originated from NPDES permitted facilities, private consulting firms, and routine and special sampling conducted by the CWB or partnering entities (Appendix A). New, readily available data that meet the CWB’s QA/QC requirements are considered for assessment in the 2016 IR.

B.4.1. Quality Assurance/Quality Control
The CWB Monitoring and Analysis Section Quality Assurance/Quality Control (QA/QC) is governed by the CWB Beach Monitoring Quality Assurance Project Plan (QAPP) and the
Coastal Chemistry Monitoring QAPP. In addition to the CWB QAPPs, the data quality necessary for assessment purposes are specified in the Clean Water Branch Quality Assurance Program Plan (CWB QAPrgP) and the Environmental Management Division Quality Management Plan (EMD QMP), which were approved by EPA Region IX on May 15, 2013 and November 15, 2013, respectively. Other data submitted from sources outside the HIDOH are evaluated for conformance with the CWB QAPrgP and the EMD QMP.

B.4.2. Laboratory Analytical Support
The HIDOH uses three Hawaii-based laboratories for analysis of samples: the Environmental Health Analytical Services Branch (EHASB) of the State Laboratories Division (SLD), the Natural Energy Laboratory of Hawaii Authority (NELHA), and Microbiology Consulting Services, LLC (MCS). The State maintains microbiology laboratories on the four largest islands (Kauai, Oahu, Maui and Hawaii), which conduct bacterial analysis for their respective islands, with the exception of West Hawaii. MCS has analyzed bacterial samples for West Hawaii since July 2007. The EHASB analyzes bacterial samples collected by HIDOH personnel on Oahu and chemical samples collected by HIDOH personnel on Kauai, Oahu, Maui and Hawaii.

B.4.3. Data Storage, Management and Sharing
The CWB bacterial dataset extends from 1973 to the present, and the nutrient and biogeochemistry dataset extends from 2006 to the present. Water quality data currently generated from CWB coastal monitoring is available on the CWB’s website and EPA’s STOrage and RETrieval (STORET) database. The STORET database contains all post-1999 sampling data from the CWB’s fixed network of routine monitoring stations. Data collected before 1999 are stored in the Legacy STORET Database. The end-users of the STORET database system include government agencies, consultants, students and the general public.

PART C. RESULTS

C.1. Coastal Watershed Assessment Results
Statewide
Approximately 558 watersheds are established statewide, and of those 558 watersheds, 544 are coastal. Based on new, readily available water quality data, 44 coastal watersheds on Kauai, Oahu, Lanai and Maui are assessed in this report. Hawaii Island is not included in the watershed assessment because its water bodies have not been organized into their respective watersheds. Watershed assessments for Hawaii Island will be available in the 2018 IR. Of the 44 coastal watersheds assessed, 40 do not attain State WQS for at least one or more conventional pollutants. It should be noted that not all parameters are assessed for every water body due to unavailability of new data.

Similar to the 2014 IR, turbidity WQS continue to be exceeded most frequently (98% of assessed watersheds), followed by nutrients (42%) across the state. Although nutrients (at least one or more) are the second most common pollutant to initiate a new impairment (Category 5 designation), 58% of the watersheds assessed attain nutrient WQS. Similar to nutrients, most (83%) assessed coastal watersheds attain chlorophyll a WQS. Attainment of recreational health standards is observed in 98% of watersheds assessed (Table 3).
Table 3. Assessed watershed attainment (A) and non-attainment (N) of WQS for pollutants summarized by island.  -- = not assessed.

<table>
<thead>
<tr>
<th>Island</th>
<th>Total Assessed Watersheds</th>
<th>Bacteria</th>
<th>Nutrients</th>
<th>Turbidity</th>
<th>Chlorophyll a</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>N</td>
<td>A</td>
<td>N</td>
</tr>
<tr>
<td>Kauai</td>
<td>11</td>
<td>10</td>
<td>0</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Oahu</td>
<td>21</td>
<td>21</td>
<td>0</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Molokai</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Lanai</td>
<td>1</td>
<td>--</td>
<td>--</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Maui</td>
<td>11</td>
<td>10</td>
<td>1</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Hawaii</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Total</td>
<td>44</td>
<td>41</td>
<td>1</td>
<td>14</td>
<td>10</td>
</tr>
</tbody>
</table>

The most common pollutant to trigger a marine §303(d) listing is turbidity, resulting in 39 impairments statewide (Table 3). Turbidity is the sole cause of a new impairment in 90% of the watersheds assessed (Table 11, Appendix B).

By Island
Kauai, Oahu and Maui show the highest percentage of turbidity impairments (100%) in assessed watersheds. The majority of assessed coastal watersheds on Kauai, Oahu, and Lanai attain WQS for nutrients (63%, 75%, and 100%, respectively), while 75% of Maui’s assessed coastal watersheds do not attain nutrient WQS. Attainment of chlorophyll $a$ WQS is observed in all assessed watersheds on Kauai, Oahu and Lanai, while only 50% of assessed Maui watersheds attain for chlorophyll $a$. Attainment of bacterial WQS account for over 98% of watersheds assessed on Kauai, Oahu and Maui (100%, 100% and 91%, respectively) (Table 3).

C.2. Marine Waterbody Assessment Results

Statewide
Marine water bodies that have yet to be place in a watershed but had new, readily available data are also assessed in this report. Out of the 55 marine water bodies assessed, 50 do not attain WQS for at least one or more conventional pollutants. It should be noted that not all parameters are assessed for every water body due to unavailability of new data.

Across the state, chlorophyll $a$ WQS are exceeded most frequently (60%), followed by turbidity (50%) and nutrients (29%) in assessed marine water bodies. Attainment of recreational health standards is observed in 96% of water body assessments (Table 4).
Table 4. Assessed marine water body attainment (A) and non-attainment (N) of WQS for pollutants summarized by island.  -- = not assessed.  Marine water bodies not associated with watershed.

<table>
<thead>
<tr>
<th>Island</th>
<th>Total Assessed Water Bodies</th>
<th>Bacteria</th>
<th></th>
<th></th>
<th>Nutrients</th>
<th></th>
<th></th>
<th>Turbidity</th>
<th></th>
<th></th>
<th>Chlorophyll a</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>N</td>
<td></td>
<td>A</td>
<td>N</td>
<td></td>
<td>A</td>
<td>N</td>
<td></td>
<td>A</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Kauai</td>
<td>4</td>
<td>1</td>
<td>0</td>
<td></td>
<td>13</td>
<td>3</td>
<td></td>
<td>2</td>
<td>0</td>
<td></td>
<td>0</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Oahu</td>
<td>15</td>
<td>5</td>
<td>0</td>
<td></td>
<td>52</td>
<td>3</td>
<td></td>
<td>12</td>
<td>1</td>
<td></td>
<td>4</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Molokai</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td></td>
<td>--</td>
<td>--</td>
<td></td>
<td>--</td>
<td>--</td>
<td></td>
<td>--</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>Lanai</td>
<td>1</td>
<td>--</td>
<td>--</td>
<td></td>
<td>3</td>
<td>1</td>
<td></td>
<td>0</td>
<td>1</td>
<td></td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Maui</td>
<td>5</td>
<td>--</td>
<td>--</td>
<td></td>
<td>8</td>
<td>12</td>
<td></td>
<td>2</td>
<td>2</td>
<td></td>
<td>1</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Hawaii</td>
<td>30</td>
<td>17</td>
<td>1</td>
<td></td>
<td>25</td>
<td>22</td>
<td></td>
<td>9</td>
<td>21</td>
<td></td>
<td>9</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>55</td>
<td>23</td>
<td>1</td>
<td></td>
<td>101</td>
<td>41</td>
<td></td>
<td>25</td>
<td>25</td>
<td></td>
<td>14</td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

Chlorophyll \(a\) is the most common pollutant to trigger a marine §303(d) listing, resulting in 60% marine water body impairments statewide (Table 4). Chlorophyll \(a\) and/or nutrients (at least one or more) are the main causes of new water quality impairments in 18% of marine water body assessments (Table 12, Appendix C).

By Island
Assessed marine water bodies on Kauai, Oahu, Lanai, and Hawaii have the highest attainment of nutrient WQS (81%, 95%, 75%, and 53%, respectively), while only 40% of Maui’s assessed marine waterbodies attain numeric WQS for at least one or more nutrients. On Kauai, Oahu, and Maui, 100%, 92%, and 50% of assessed water bodies attain turbidity WQS, respectively. Assessed water bodies on Lanai and Hawaii indicate non-attainment of turbidity WQS (100% and 70%, respectively). Attainment of chlorophyll \(a\) WQS is identified in 69% of marine water bodies assessed on Hawaii. Most of the assessed water bodies on Kauai, Oahu, Lanai, and Maui do not attain chlorophyll \(a\) WQS (100%, 69%, 100%, and 80%, respectively). Attainment of bacterial WQS accounts for over 96% of marine water bodies assessed on Kauai, Oahu, and Hawaii (100%, 100%, and 94%, respectively) (Table 4).

C.3. Assessment Results Summary
The 2016 IR continues to implement a multi-category listing method (Category 1-5) to characterize current water quality status (e.g. new impairment listing, delisting, etc.) across the State. All changes that have occurred since the previous listing cycle (2014 IR) as a result of new data analysis are documented (Table 5). The following table details how a marine water body or watershed is assigned a different numerical category and includes reasons for those changes. Overall, there were 104 listings and 23 delistings for pollutants for the 2016 IR assessment cycle (Table 5).
Table 5. Category changes from the 2014 listed marine water bodies that identify pollutants where a change has occurred (e.g. new impairment listing, delisting, etc.). Pollutants: Enterococcus; TN=total nitrogen; TDN=total dissolved nitrogen; NO$_3$+NO$_2$=nitrate+nitrite-nitrogen; NH$_4$=ammonia-nitrogen; TP=total phosphorus; TDP=total dissolved phosphorus; PO$_4$=orthophosphate; Turbidity; Chl a=chlorophyll a. Summary rationale codes: NND=new numerical data; NL=new impairment listing (assign category 5); DL=delisting (category change from 5 to 2; A2=assign category 2; category change from 3 to 2; CC=change wet/dry criteria; C to B=change from coastal to embayment water body type; K to B=change from Kona to embayment water body type; B to C=change from embayment to coastal water body type; E to C=change from estuary to coastal water body type. *Nested IR scopes of assessment within CWB Watershed Decision Unit. Marine waters are sorted by island, north to south.

<table>
<thead>
<tr>
<th>Scope of Assessment</th>
<th>Water Body ID</th>
<th>Pollutant</th>
<th>Decision Action</th>
<th>Summary Rationale</th>
<th>Reason for Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hanalei Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Turbidity</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
<td></td>
</tr>
<tr>
<td>Hanapepe Watershed</td>
<td>TBD</td>
<td>TN</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>NO$_3$+NO$_2$</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>NH$_4$</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TP</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chl a</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
<td></td>
</tr>
<tr>
<td>Kalihiwai Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Turbidity</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
<td></td>
</tr>
<tr>
<td>Scope of Assessment</td>
<td>Water Body ID</td>
<td>Pollutant</td>
<td>Decision Action</td>
<td>Summary Rationale</td>
<td>Reason for Changes</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------</td>
<td>-----------</td>
<td>----------------</td>
<td>------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>*Kalihiwai Bay (Kaliiwai Watershed)</td>
<td>HI264001</td>
<td>Enterococcus</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td>DELIST cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
</tr>
<tr>
<td>Kapaa Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
<td></td>
</tr>
<tr>
<td>Turbidity List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Kealia (Kapaa Watershed)</td>
<td>HI402035</td>
<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td>*Kikiaola Beach (Kapilimao Watershed)</td>
<td>HI119207</td>
<td>Water Body Type</td>
<td>Change water body type</td>
<td>B to C</td>
<td>Assessment of new geospatial data supports change in water body type from embayment to coastal. Water body is not located within an embayment specified in HAR 11-54, Appendix C.</td>
</tr>
<tr>
<td>Kaumakani Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
<td></td>
</tr>
<tr>
<td>Turbidity List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kawailoa Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
<td></td>
</tr>
<tr>
<td>Turbidity List Pollutant</td>
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<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limahuli Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
<td></td>
</tr>
<tr>
<td>Turbidity List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Scope of Assessment</td>
<td>Water Body ID</td>
<td>Pollutant</td>
<td>Decision Action</td>
<td>Summary Rationale</td>
<td>Reason for Changes</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>---------------</td>
<td>-----------</td>
<td>-----------------</td>
<td>-------------------</td>
<td>------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>*Shipwreck Beach (Mahaulepu Watershed)</td>
<td>HI358435</td>
<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td><strong>ASSIGN cat. 5;</strong> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td>Manoa Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td></td>
<td><strong>ASSIGN cat. 2;</strong> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td><strong>ASSIGN cat. 5;</strong> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td>Nawiliwili Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
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<td>Reason for Changes</td>
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<td>Assessment of new geospatial data supports change in water body type from coastal to embayment. Water body is located within Hanalei Bay which is specified as an embayment in HAR 11-54, Appendix C.</td>
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## Oahu

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<th>Summary Rationale</th>
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<td>Water Body Type</td>
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<td>C to B</td>
<td>Assessment of new geospatial data supports change in water body type from coastal to embayment. Water body is located within Paiko Peninsula to Koko Head which is specified as an embayment in HAR 11-54, Appendix C.</td>
</tr>
<tr>
<td>Ma'ili Watershed</td>
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<tr>
<td>*Ihilani Kohola Lagoon (Makaiwa Watershed)</td>
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<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td>Nanakuli Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td>*Nanakuli Beach Park (Nanakuli Watershed)</td>
<td>HI467413</td>
<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td>Nuuanu Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>Paumalu Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td>Waimanalo Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<tr>
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<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td></td>
<td></td>
<td>NO₃+NO₂</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
<td></td>
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<tr>
<td>Scope of Assessment</td>
<td>Water Body ID</td>
<td>Pollutant</td>
<td>Decision Action</td>
<td>Summary Rationale</td>
<td>Reason for Changes</td>
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<tr>
<td>Waimanalo Watershed</td>
<td>TBD</td>
<td>NH₄</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>Turbidity</td>
<td>NND, NL</td>
<td></td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<td>Chl a</td>
<td>NND, A2</td>
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<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
</tr>
<tr>
<td>*Bellows Field Beach Co. Park (N. Runway) (Waimanalo Watershed)</td>
<td>HI7988011</td>
<td>Enterococcus</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td>DELIST cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
</tr>
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<td>TN</td>
<td>NND, A2</td>
<td></td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>NO₃+NO₂</td>
<td>NND, A2</td>
<td></td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
</tr>
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<td>NH₄</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>NND, NL</td>
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<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<td>Chl a</td>
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<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<tr>
<td>Scope of Assessment</td>
<td>Water Body ID</td>
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<td>Reason for Changes</td>
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<tr>
<td>Waimea Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>Turbidity</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<td>Campbell Industrial</td>
<td>HIW00187</td>
<td>NH₄</td>
<td>List Pollutant</td>
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<td>DELIST cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
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<td>Turbidity</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
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<td>Chl a</td>
<td>List Pollutant</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
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</tr>
<tr>
<td>Kahe Point (Open Coastal)</td>
<td>TBD</td>
<td>TN</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td></td>
<td>NH₄</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>Kailua Bay (Open Coastal)</td>
<td>HIW00194</td>
<td>NH₄</td>
<td>List Pollutant</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
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<tr>
<td>Mamala Bay (Fort Kamehameha Offshore)</td>
<td>HIW00190</td>
<td>Chl a</td>
<td>List Pollutant</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
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<td>Scope of Assessment</td>
<td>Water Body ID</td>
<td>Pollutant</td>
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<td>Summary Rationale</td>
<td>Reason for Changes</td>
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<tr>
<td>Ocean Pointe C</td>
<td>HIW00132</td>
<td>Chl $a$</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
</tr>
<tr>
<td>Ocean Pointe Control</td>
<td>HIW00129</td>
<td>Turbidity</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td>DELIST cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
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<td>Ocean Pointe E</td>
<td>HIW00130</td>
<td>Turbidity</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td>DELIST cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
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<td>Chl $a$</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
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<tr>
<td>Ocean Pointe W</td>
<td>HIW00131</td>
<td>Turbidity</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td>DELIST cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
</tr>
<tr>
<td>Ocean Pointe KA</td>
<td>HIW00210</td>
<td>Turbidity</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td>DELIST cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
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<td></td>
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<td>Turbidity</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td>DELIST cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
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<td>Ocean Pointe PR</td>
<td>HIW00211</td>
<td>Turbidity</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
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<td>Chl $a$</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
</tr>
<tr>
<td>Pokai Bay (Open Coastal)</td>
<td>HIW00018</td>
<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
</tr>
<tr>
<td>Sandy Beach (Open Coastal)</td>
<td>HIW00191</td>
<td>NH$_4$</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
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<td></td>
<td></td>
<td>Chl $a$</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td>Scope of Assessment</td>
<td>Water Body ID</td>
<td>Pollutant</td>
<td>Decision Action</td>
<td>Summary Rationale</td>
<td>Reason for Changes</td>
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</tr>
<tr>
<td>*Kaluakoi Point to Huawai Bay (Anapuka Watershed)</td>
<td>HIW00135</td>
<td>NH₄</td>
<td>Delist Pollutant</td>
<td>NND, NL</td>
<td><strong>DELIST cat. 2;</strong> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
</tr>
<tr>
<td>Manele Watershed</td>
<td>TBD</td>
<td>TN</td>
<td>NND, A2</td>
<td></td>
<td><strong>ASSIGN cat. 2;</strong> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<tr>
<td></td>
<td></td>
<td>NO₃+NO₂</td>
<td>NND, A2</td>
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<td><strong>ASSIGN cat. 2;</strong> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
</tr>
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<td></td>
<td></td>
<td>NH₄</td>
<td>NND, A2</td>
<td></td>
<td><strong>ASSIGN cat. 2;</strong> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>NND, A2</td>
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<td><strong>ASSIGN cat. 2;</strong> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td></td>
<td></td>
<td>Turbidity</td>
<td>NND, A2</td>
<td></td>
<td><strong>ASSIGN cat. 2;</strong> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<tr>
<td></td>
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<td>Chl a</td>
<td>NND, A2</td>
<td></td>
<td><strong>ASSIGN cat. 2;</strong> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
</tr>
<tr>
<td>*Hulupoe Bay (Manele Watershed)</td>
<td>HIW00177</td>
<td>Turbidity</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td><strong>DELIST cat. 2;</strong> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
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<tr>
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<td></td>
<td>Chl a</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td><strong>DELIST cat. 2;</strong> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
</tr>
<tr>
<td>Scope of Assessment</td>
<td>Water Body ID</td>
<td>Pollutant</td>
<td>Decision Action</td>
<td>Summary Rationale</td>
<td>Reason for Changes</td>
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</tr>
<tr>
<td>Hapapa Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td></td>
<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td>Honokahua Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td>*Fleming Beach North (Honokahua Watershed)</td>
<td>HI253548</td>
<td>TN</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>NO₃+NO₂</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<td>NH₄</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
<td></td>
</tr>
<tr>
<td>*Oneloa Bay Beach (Honokahua Watershed)</td>
<td>HI740710</td>
<td>TN</td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>NO₃+NO₂</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<td>Scope of Assessment</td>
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</tr>
<tr>
<td>*Oneloa Bay Beach (Honokahua Watershed)</td>
<td>HI740710</td>
<td>TP</td>
<td></td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<td>Chl a</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td>Honokowai Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
<td></td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<tr>
<td>*West Maui Coast-S-Turns (Pohaku) (Honokowai Watershed)</td>
<td>HIW00047</td>
<td>Enterococcus</td>
<td></td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td>NH₄</td>
<td>List Pollutant</td>
<td>NND, NL</td>
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<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<tr>
<td>Honolua Watershed</td>
<td>TBD</td>
<td>Enterococcus</td>
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<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<td>Turbidity</td>
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<td>NND, NL</td>
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<td>Pollutant</td>
<td>Decision Action</td>
<td>Summary Rationale</td>
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<td>C to B</td>
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<td><strong>Assign cat. 2</strong>: Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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<td><strong>Assign cat. 5</strong>: Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<td>Change Criteria</td>
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*Hanaka'o'o Beach Co. Park (Wahikuli Watershed)  
*Ka'anapali (Kahekili Beach) (Wahikuli Watershed)
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</tr>
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<td>Change Criteria</td>
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<td>Assessment of new data supports change in criteria from NA to wet.</td>
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<td>James Keahole Park</td>
<td>HI670254</td>
<td>Water Body Type</td>
<td>Change water body type</td>
<td>E to C</td>
<td>Assessment of new geospatial data supports change in water body type from estuary to coastal.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wet/Dry Criteria</td>
<td>Change Criteria</td>
<td>CC</td>
<td>Assessment of new data supports change in criteria from NA to wet.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
</tr>
<tr>
<td>Kahuwai Bay-Mano Point</td>
<td>HIW00153</td>
<td>Turbidity</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td>DELIST cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
</tr>
<tr>
<td>Kamakaokahonu (Kailua Pier A-1)</td>
<td>HI261474</td>
<td>Water Body Type</td>
<td>Change water body type</td>
<td>K to B</td>
<td>Assessment of new geospatial data supports change in water body type from Kona to embayment. Water body is located in Kailua Harbor which is specified as an embayment in HAR 11-54, Appendix B.</td>
</tr>
<tr>
<td>Water Body ID</td>
<td>Water Body Type</td>
<td>Pollutant</td>
<td>Decision Action</td>
<td>Summary Rationale</td>
<td>Reason for Changes</td>
</tr>
<tr>
<td>----------------</td>
<td>----------------</td>
<td>-----------</td>
<td>-----------------</td>
<td>------------------</td>
<td>-------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>HI261474</td>
<td></td>
<td>Wet/Dry Criteria</td>
<td>Change Criteria</td>
<td>CC</td>
<td><strong>DELIST cat. 2:</strong> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
</tr>
<tr>
<td>HIW00201</td>
<td></td>
<td>NO₃+NO₂</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td><strong>ASSIGN cat. 5:</strong> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
</tr>
<tr>
<td>HIW00203</td>
<td></td>
<td>NH₄</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td><strong>ASSIGN cat. 5:</strong> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
</tr>
<tr>
<td>HIW00149</td>
<td></td>
<td>NH₄</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td><strong>ASSIGN cat. 5:</strong> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
</tr>
<tr>
<td>HI713293</td>
<td></td>
<td>Water Body Type</td>
<td>Change water body type</td>
<td>K to B</td>
<td>Assessment of new geospatial data supports change in water body type from Kona to embayment. Water body is specified as an embayment in HAR 11-54, Appendix C.</td>
</tr>
<tr>
<td>HI559410</td>
<td></td>
<td>Water Body Type</td>
<td>Change water body type</td>
<td>K to B</td>
<td>Assessment of new geospatial data supports change in water body type from Kona to embayment. Water body is located in Honaunau Bay which is specified as an embayment in HAR 11-54, Appendix B.</td>
</tr>
<tr>
<td>Scope of Assessment</td>
<td>Water Body ID</td>
<td>Pollutant</td>
<td>Decision Action</td>
<td>Summary Rationale</td>
<td>Reason for Changes</td>
</tr>
<tr>
<td>-------------------------</td>
<td>--------------</td>
<td>-----------</td>
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<td>-------------------</td>
<td>-----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Mahukona Harbor</td>
<td>HIW00197</td>
<td>TP</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td>DELIST cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
</tr>
<tr>
<td>Manini Point Co. Park</td>
<td>HI379964</td>
<td>Water Body Type</td>
<td>Change water body type</td>
<td>K to B</td>
<td>Assessment of new geospatial data supports change in water body type from Kona to embayment. Water body is located in Kealakekua Bay which is specified as an embayment in HAR 11-54, Appendix B.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wet/Dry Criteria</td>
<td>Change Criteria</td>
<td>CC</td>
<td>Assessment of new data supports change in criteria from NA to dry.</td>
</tr>
<tr>
<td>Paaaoao Point to Keawekaheka Point</td>
<td>HIW00145</td>
<td>PO$_4$</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
</tr>
<tr>
<td>Pu'uhonua o Honaunau</td>
<td>HI478461</td>
<td>Water Body Type</td>
<td>Change water body type</td>
<td>K to B</td>
<td>Assessment of new geospatial data supports change in water body type from Kona to embayment. Water body is located in Honaunau Bay which is specified as an embayment in HAR 11-54, Appendix B.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wet/Dry Criteria</td>
<td>Change Criteria</td>
<td>CC</td>
<td>Assessment of new data supports change in criteria from NA to wet.</td>
</tr>
<tr>
<td>Radio Bay</td>
<td>HI425303</td>
<td>Water Body Type</td>
<td>Change water body type</td>
<td>E to C</td>
<td>Assessment of new geospatial data supports change in water body type from estuary to coastal.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wet/Dry Criteria</td>
<td>Change Criteria</td>
<td>CC</td>
<td>Assessment of new data supports change in criteria from NA to wet.</td>
</tr>
<tr>
<td>Waiulua Bay to Anachoomalu Bay</td>
<td>HIW00148</td>
<td>Chl $a$</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
</tr>
</tbody>
</table>
REFERENCES


CHAPTER 2: INLAND WATERS
PART A. SCOPE OF WATERS

Chapter 2 of the 2016 IR covers all inland waters. Attainment decision units for the 2016 IR remain the same as in previous IRs. Inland freshwaters are partitioned by type according to the HAR Ch. 11-54. Estuaries, which are classified as inland waters, have been reorganized in this report’s §303(d) and §305(b) assessments (Chapter 3) and now exist under inland waters rather than marine waters. Estuaries are characteristically brackish coastal waters, which HAR Ch. 11-54 defines as waters with salinity greater than 0.5 ppt but less than 32 ppt.

PART B. MONITORING AND ASSESSMENT

B.1. Basic Attainment Decision Unit

The basic (Tier I) attainment decision unit (ADU or decision unit) for Hawaii’s inland freshwaters is the entire network of hydrologically connected freshwater segments associated with a single listed stream, stream segment, or stream tributary. These freshwater segments and ADUs can include one or more water body type as defined by HAR Ch. 11-54, including, but not limited to, intermittent streams, reservoirs, and wetlands (Table 6).

Table 6. Applicable water quality criteria and decision unit boundaries for inland freshwater bodies.

<table>
<thead>
<tr>
<th>Water Body Type¹</th>
<th>Applicable Water Quality Criteria²</th>
<th>Decision Unit Boundary³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flowing Seep</td>
<td>Basic/Recreational</td>
<td>Flowpath/Flow Surface</td>
</tr>
<tr>
<td>Flowing Spring</td>
<td>Basic/Recreational</td>
<td>Flowpath/Flow Surface</td>
</tr>
<tr>
<td>Elevated Wetland</td>
<td>Basic/Recreational/Wetland</td>
<td>1987 Corps Delineation⁴</td>
</tr>
<tr>
<td>Low Wetland</td>
<td>Basic/Recreational</td>
<td>1987 Corps Delineation⁴</td>
</tr>
<tr>
<td>Intermittent Stream</td>
<td>Basic/Recreational/Water Column/Bottom</td>
<td>Entire Network or Sub-network⁵</td>
</tr>
<tr>
<td>Perennial Stream</td>
<td>Basic/Recreational/Water Column/Bottom</td>
<td>Entire Network or Sub-network⁵</td>
</tr>
<tr>
<td>Natural Freshwater Lake</td>
<td>Basic/Recreational</td>
<td>Lake</td>
</tr>
<tr>
<td>Freshwater Impoundment⁶</td>
<td>Basic/Recreational</td>
<td>Impoundment</td>
</tr>
<tr>
<td>Reservoir</td>
<td>Basic/Recreational</td>
<td>Reservoir</td>
</tr>
<tr>
<td>Ditch</td>
<td>Basic/Recreational</td>
<td>Ditch</td>
</tr>
<tr>
<td>Flume</td>
<td>Basic/Recreational</td>
<td>Flume</td>
</tr>
<tr>
<td>Drainage Ditch⁷</td>
<td>Basic/Recreational</td>
<td>Drainage Ditch</td>
</tr>
<tr>
<td>Canal⁷</td>
<td>Basic/Recreational</td>
<td>Canal</td>
</tr>
</tbody>
</table>

¹HAR Ch. 11-54-1 inland freshwater water body types; these definitions are applied to the definition of decision units. ²HAR Ch. 11-54-4 basic water quality criteria applicable to all waters; HAR Ch. 11-54-8(a) specific criteria for inland recreational waters; HAR Ch. 11-54-5.2(b) specific criteria for stream water column; HAR Ch. 11-54-5.2(b)(2) bottom criteria for streams; HAR Ch. 11-54-5.2(c) specific criteria for elevated wetlands. ³HAR Ch. 11-54-5.1(a) establishes a system of water body classification and associated designated uses. ⁴HAR Ch. 11-54-1 “…the identification and delineation of wetland boundaries shall be done following the procedures described in the U.S. Army Corps of Engineers’ Wetland Delineation Manual (USACE 1987).” ⁵HAR Ch. 11-54-1 “Stream system” means the aggregate of water features comprising or associated with a stream, including the stream itself and its tributaries, headwaters, ponds, wetlands, and estuary. A stream system is geographically delimited by the boundaries of its drainage basin or watershed. For stream attainment decision purposes, "associated" is interpreted as "hydrologically connected" and estuaries, ditches, flumes, drainage ditches, and canals are not included in the assessment. ⁶This water body type is not defined by rule but is included in the definition of “Standing waters.” This water body type is not defined by rule but is included in the definition of “State waters.”
B.1.1. Tiered Approach

A tiered approach, linked with the assessment decision criteria first adopted in Hawaii’s 2002 §303(d) list of impaired waters, was used in past assessments to refine decision units for inland freshwater stream networks. Tier I ADUs are used for initial attainment decisions as governed by the current §303(d) listing criteria and for defining the geographic scope of "legacy" listings based on visual assessments. Tier II ADUs encompass segments and partial segments that can be more narrowly defined and assessed based on existing monitoring locations, data, and boundaries between water body types, and are used for attainment decisions on a case-by-case basis. Tier III ADUs are established for TMDL development and other intensive monitoring and analysis purposes. Tier IV ADUs are part of Tier III decision units and defined based on the most detailed assessment information.

B.1.2. Decision Unit Rationale and Implementation

HIDOH’s current focus on defining ADUs for inland freshwaters is based on:

(a) An assumption that streams are the most widespread and important inland freshwater body type to assess for achieving marine water quality goals;
(b) The lack of numeric water quality standards criteria for conventional chemical and physical pollutants in most other freshwater body types;
(c) The unavailability of a complete water body inventory and present limitations for monitoring and assessing all water bodies, water quality criteria, and use attainment within each water body type.

ADUs for inland freshwaters do not include marine waters, inland brackish or saline waters, such as estuaries and anchialine pools. Decision unit boundaries for other inland freshwater body types are defined on a case-by-case basis when monitoring data and other assessment information is available, but generally encompass the entire water body.

B.1.3. Application of Criteria to Attainment Decisions

The §303(d) list of impaired waters applies to the entire inland freshwater portion of a stream system, including all hydrologically connected reaches, unless a case is documented in which smaller decision units are justified. The same method also applies to other water body types.

The HIDOH recommends non-HIDOH entities conducting similar monitoring, analysis, and planning activities to consult with HIDOH about sampling designs and information management protocols that will facilitate HIDOH's ability to use secondary data for attainment decisions. The entire hydrologic network within a watershed is the largest possible decision unit for inland freshwater bodies, and may include the boundaries of the following water body types as defined by HAR Ch. 11-54-1.

HIDOH encourages monitoring, analysis, and planning activities that acknowledge and consider the regulatory boundaries between specific water body types and demonstrate a rationale for segmenting each water body into smaller decision units. The EPA's 2006 IR Guidance (U.S. EPA Watershed Branch 2005) provides a summary of factors to consider in developing these rationales.
B.2. Quality Assurance/Quality Control
The data quality necessary for assessment purposes are specified in the CWB QAPrgP, which was approved by EPA Region IX on May 15, 2013, and the EMD QMP, which was approved by EPA Region IX on November 15, 2013. Other data submitted from sources outside the HIDOH are evaluated for conformance with the CWB QAPrgP and the EMD QMP.

B.3. Assessment Methodology
Standardized criteria enable HIDOH to periodically collect and assess datasets for water body evaluations. Datasets and supporting documentation are evaluated against numeric water quality criteria, henceforth referred to as WQS, where applicable, for listing/delisting decisions. New, readily available data that meet the CWB’s QA/QC and data submittal requirements (including a minimum of 10 samples per wet and dry season) are considered for assessment in the 2016 IR.

The WQS described in HAR Ch. 11-54 for recreational, nutrient and biogeochemical parameters in inland freshwaters are divided into “wet” (November through April) and “dry” (May through October) season criteria. This is in contrast to the “wet” and “dry” WQS applicable in marine waters, which are dependent on the amount of freshwater discharge per shoreline mile. Water quality standards for estuaries are not divided into “wet” and “dry” seasons.

Similar to marine waters, enterococci are the indicator bacteria used to evaluate recreational health in inland waters, while nutrients (TN, NO$_3$+NO$_2$, NH$_4$ and TP) and biogeochemical parameters (TSS, turbidity and chlorophyll $a$) are used to determine ecosystem health.

Decisions for listing/delisting (§303(d)) conventional pollutants for inland waters follow the same protocol as marine waters (Figure 1). For the 2016 IR, inland waters follow the same assessment methodology as marine waters for recreational and ecosystem health water quality assessment, with the exception of the CWB watershed DU boundaries and 30 minimum sample size. Similar to marine waters, nutrient WQS vary depending on water body type, whereas bacterial WQS remain the same for all marine waters (Table 7).

### Table 7. Applicable water body type and WQS for inland water bodies.

<table>
<thead>
<tr>
<th>Water Body Type</th>
<th>Description</th>
<th>Recreational WQS</th>
<th>Nutrient WQS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estuaries</td>
<td>As defined in HAR Ch. 11-54-1</td>
<td>HAR Ch. 11-54-8</td>
<td>Estuary, HAR Ch. 11-54-5.2(d)(1)</td>
</tr>
<tr>
<td>Streams</td>
<td>As defined in HAR Ch. 11-54-1</td>
<td>HAR Ch. 11-54-8</td>
<td>Embayment, HAR Ch. 11-54-5.2(b)</td>
</tr>
</tbody>
</table>

For toxic pollutants, such as pesticides and heavy metals, which often require expensive analyses, a minimum sample size of three is required for assessment. Toxic pollutants for inland freshwaters are characterized by acute and chronic concentration criteria and fish consumption criteria.

Biological surveys of aquatic communities, fish consumption advisories and reports of contaminated sediments are also eligible sources of listing information. Datasets for evaluation
of narrative criteria must include at least three sampling events and represent conditions in wet and dry seasons. These narrative criteria may be evaluated using HIDOH-approved habitat or biological assessment methodologies as long as they can be directly correlated to specific narrative criteria in HAR Ch. 11-54-4. Also, in accordance with HAR Ch. 11-54-4(b)(2)(A), acute toxicity standards for the contamination of sediment may be evaluated using broadly accepted standards such as those developed in Canada and New York (CCME 1999; NYSDEC 1999), provided that HIDOH deems them appropriate for use in Hawaii.

B.3.1. Water Body ID (formally Geocode ID)
Numerous conventions for naming and coding Hawaii’s water bodies and decision unit boundaries have been designed and used over time. Building a comprehensive statewide water body inventory that standardizes these conventions for use by HIDOH and others is an ongoing intergovernmental resource management task. Geocode ID (or water body identification) for inland freshwater decision units are based on the Hawaii Stream Assessment (HSA) Coding System (Hawaii Cooperative Park Service Unit 1990) with some modifications, as noted in the 2006 IR. Similar to marine waters, geocode IDs for inland waters have been renamed to water body ID in the 2016 IR because they serve as an internal unique identifier and do not relate to geospatial information. Development of GIS maps for the §303(d) impaired waters list and §305(b) water bodies for inland waters will coincide with the development of the standardized assessment methodology for inland waters and therefore come at a later date.

B.4. Inland Waters Assessment Results
Six inland freshwater bodies and six estuaries are assessed in this report: Waiopili Stream (Kauai) (wet season) and Aahuimanu Stream, Heeia Stream, Kahaluu Stream, Waiahole Stream and Waihee Stream (Oahu(wet and dry seasons). Estuaries (Hanalei River (end of Weke Road) (Kauai); Kahaluu, Iroquois Point and Pearl Harbor (Oahu); Keahukaha Beach Park and Leleiwi Beach Co. Park (Richardson Ocean Center) (Big Island)) have only one set of numeric WQS and therefore are not compared between a wet and dry season.

Streams Wet Season
Kauai
Waiopili Stream is a new impairment listing in the 2016 IR. It exceeds wet season WQS for bacteria and turbidity (Table 8). There were insufficient data to make assessments during the dry season.

Oahu
Ahuimanu Stream was initially listed as visually impaired for turbidity in the 2006 IR. Based on newly assessed numerical data, turbidity continues to exceed wet season WQS. Enterococcus is a new pollutant assessed for this water body in the 2016 IR. Enterococcus concentrations for Ahuimanu Stream indicate non-attainment of recreational WQS (Table 8).

Heeia Stream initially exceeded wet season WQS for NO$_3$+NO$_2$ in the 2004 IR, and based on newly assessed data continues to exceed wet season WQS for NO$_3$+NO$_2$. Total nitrogen and TSS concentrations in Heeia Stream indicate current attainment of WQS, as in previous IRs. Heeia Stream was initially listed for turbidity impairment in the 2006 IR and for TP impairment
in the 2014 IR. Currently, Heeia Stream attains wet season turbidity and TP WQS, resulting in a delisting of Heeia Stream for both pollutants (Table 8).

Kahaluu Stream exceeds enterococcus recreational WQS, resulting in a new listing for this pollutant. Kahaluu Stream was initially listed visually impaired for turbidity prior to the 2002 IR, but currently attains wet season turbidity WQS, resulting in a delisting of Kahaluu Stream for this pollutant (Table 8).

Waiahole Stream exceeds enterococcus recreational WQS, resulting in a new listing for this pollutant (Table 8). Waiahole Stream attained turbidity WQS in the 2006 IR, and it continues to attain turbidity WQS.

Waihee Stream exceeds enterococcus recreational WQS, resulting in a new listing (Table 8). Turbidity is a new pollutant assessed for Waihee Stream in the 2016 IR, and Waihee Stream currently attains turbidity WQS.

Streams Dry Season

Oahu

Ahuimanu Stream was initially listed as visually impaired for turbidity in the 2006 IR. Based on newly assessed numerical data, Ahuimanu Stream continues to exceed dry season turbidity WQS. Ahuimanu Stream also indicates non-attainment of recreational WQS with enterococcus being a new pollutant in the 2016 IR (Table 8).

Heeia Stream was initially listed as impaired for TN and NO$_3$+NO$_2$ during the dry season in the 2006 IR. In the 2014 IR, Heeia Stream attained dry season TN WQS, resulting in a delisting for this pollutant. Currently, Heeia Stream does not attain dry season TN WQS, resulting in a listing for this pollutant (Table 8). Heeia Stream continues to exceed dry season NO$_3$+NO$_2$ WQS, as it did in previous IRs. It continues to attain dry season TP, turbidity, and TSS WQS, as in previous IRs.

Kahaluu Stream exceeds enterococcus recreational WQS, resulting in a new listing for this pollutant (Table 8). Turbidity, initially listed impaired in the 2006 IR continues to exceed dry season WQS.

Waiahole Stream exceeds enterococcus recreational WQS, resulting in a new listing for this pollutant. Waiahole Stream attained turbidity WQS in the 2006 IR, but now exceeds turbidity WQS, resulting in a listing for this pollutant (Table 8).

Waihee Stream exceeds enterococcus recreational WQS, resulting in a new listing for this pollutant (Table 8). Waihee Stream was listed as impaired for turbidity in the 2006 IR and continues to exceed turbidity WQS.

Estuaries

Kauai

Hanalei River (end of Weke Road) estuary was initially listed as impaired for enterococcus prior to the 2002 IR and for turbidity in the 2004 IR. TMDLs for enterococcus and turbidity were
approved in 2008. Newly assessed numerical data indicate Hanalei River estuary continues to not attain WQS for enterococcus and turbidity.

**Oahu**
Kahaluu estuary was initially listed as visually impaired for turbidity in the 2006 IR. Newly assessed numerical data show Kahaluu estuary still exceeds WQS for turbidity. Kahaluu estuary does not attain recreational WQS Enterococcus is a new pollutant assessed for this waterbody, Kahaluu estuary (Table 8).

Iroquois Point (located in Pearl Harbor estuary) was initially assessed in the 2012 IR and attained WQS for enterococcus. Newly assessed numerical data indicate this water body continues to attain WQS for enterococcus.

Pearl Harbor estuary was listed as impaired for turbidity prior to the 2002 IR and continued to be listed until the 2012 IR, in which it became delisted and attained WQS for turbidity. Newly assessed numerical data indicate this water body continues to attain standards for turbidity.

**Big Island**
Keaukaha Beach Park was initially assessed in the 2006 IR and attained WQS for enterococcus. Newly assessed numerical data indicate this water body continues to attain standards for enterococcus.

Leleiwi Beach Co. Park (Richardson Ocean Center) was initially listed as impaired for turbidity prior to the 2002 IR and continued to be until the 2014 IR, in which it became delisted and attained turbidity WQS. However, newly assessed numerical data indicates that this water body no longer meets turbidity WQS, and therefore it is again listed as impaired for turbidity. Newly assessed numerical data indicate that this water body continues to attain enterococcus WQS, which it has since the 2006 IR.
**Table 8.** Category changes from the 2014 listed inland water bodies that identify pollutants where a *change* has occurred. Pollutants: Enterococcus; TN=total nitrogen; NO$_3$+NO$_2$=nitrate+nitrite-nitrogen; TP=total phosphorus; Turbidity. Summary rationale codes: NND=new numerical data; NL=new impairment listing (assign category 5); DL=delisting (category change from 5 to 2).

<table>
<thead>
<tr>
<th>Scope of Assessment</th>
<th>Water Body ID</th>
<th>Pollutant</th>
<th>Decision Action</th>
<th>Summary Rationale</th>
<th>Reason for Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>KAUAI</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Waiopili Stream</td>
<td>2-3-99</td>
<td>Turbidity (wet season)</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td></td>
<td>2-3-99</td>
<td>Enterococcus (wet season)</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td><strong>OAHU</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ahuimanu Stream</td>
<td>3-2-07.03</td>
<td>Enterococcus (wet &amp; dry season)</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td>Ala Wai Canal &amp; Boat Harbor</td>
<td>HIW00050</td>
<td>NO$_3$+NO$_2$</td>
<td>Change $V_T$ to $V$</td>
<td></td>
<td>Changed $V_T$ to $V$ listing because pollutant is not covered in TMDL.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NH$_4$</td>
<td>Change $V_T$ to $V$</td>
<td></td>
<td>Changed $V_T$ to $V$ listing because pollutant is not covered in TMDL.</td>
</tr>
<tr>
<td>Heeia Stream</td>
<td>3-2-08</td>
<td>TP (wet season)</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Turbidity (wet season)</td>
<td>Delist Pollutant</td>
<td>NND, DL</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TN (dry season)</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
</tr>
<tr>
<td>Scope of Assessment</td>
<td>Water Body ID</td>
<td>Pollutant</td>
<td>Decision Action</td>
<td>Summary Rationale</td>
<td>Reason for Changes</td>
</tr>
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<td>--------------</td>
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<tr>
<td>Kahaluu Estuary</td>
<td>3-2-07-E</td>
<td>Enterococcus</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td>Kahaluu Stream</td>
<td>3-2-07.02</td>
<td>Enterococcus (wet &amp; dry season)</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Turbidity (wet season)</td>
<td>Delist Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.</td>
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<tr>
<td>Kamooalii Stream (Trib to Kaneohe Stream)</td>
<td>3-2-10.01</td>
<td>NO$_3$+NO$_2$ (wet &amp; dry season)</td>
<td>Change VT to V</td>
<td>Changed VT to V listing because pollutant is not covered in TMDL.</td>
<td></td>
</tr>
<tr>
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<td></td>
<td>Turbidity (wet &amp; dry season)</td>
<td>Change VT to V</td>
<td>Changed VT to V listing because pollutant is not covered in TMDL.</td>
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<td></td>
<td>TSS (wet &amp; dry season)</td>
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<td>Changed VT to V listing because pollutant is not covered in TMDL.</td>
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<tr>
<td>Kapaa Stream</td>
<td>3-2-13-Kapaa</td>
<td>NO$_3$+NO$_2$</td>
<td>Change VT to V</td>
<td>Changed VT to V listing because pollutant is not covered in TMDL.</td>
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</tr>
<tr>
<td></td>
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<td>Turbidity</td>
<td>Change VT to V</td>
<td>Changed VT to V listing because pollutant is not covered in TMDL.</td>
<td></td>
</tr>
<tr>
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<td>3-2-11</td>
<td>NO$_3$+NO$_2$</td>
<td>Change VT to V</td>
<td>Changed VT to V listing because pollutant is not covered in TMDL.</td>
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<tr>
<td></td>
<td></td>
<td>Turbidity</td>
<td>Change VT to V</td>
<td>Changed VT to V listing because pollutant is not covered in TMDL.</td>
<td></td>
</tr>
<tr>
<td>Waiahole Stream</td>
<td>3-2-04</td>
<td>Enterococcus (wet &amp; dry season)</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Turbidity (dry season)</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
</tr>
</tbody>
</table>
### OAHU

<table>
<thead>
<tr>
<th>Scope of Assessment</th>
<th>Water Body ID</th>
<th>Pollutant</th>
<th>Decision Action</th>
<th>Summary Rationale</th>
<th>Reason for Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waihee Stream</td>
<td>3-2-07.01</td>
<td>Enterococcus (wet &amp; dry season)</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.</td>
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<tr>
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<td></td>
<td>Turbidity (wet season)</td>
<td></td>
<td>NND, A2</td>
<td>ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.</td>
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### Big Island

<table>
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<tr>
<th>Scope of Assessment</th>
<th>Water Body ID</th>
<th>Pollutant</th>
<th>Decision Action</th>
<th>Summary Rationale</th>
<th>Reason for Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leleiwi Beach Co. Park (Richardson Ocean Center)</td>
<td>HIW00030</td>
<td>Turbidity</td>
<td>List Pollutant</td>
<td>NND, NL</td>
<td>ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.</td>
</tr>
</tbody>
</table>
B.5. Wetlands Program
Responsibilities for wetland protection are diffused among various federal, state and county authorities. There is no formal wetland program in HIDOH. However, HIDOH does utilize their authority under CWA §401 (WQC) to certify, waive or deny water quality certification for CWA §404 permits issued by the USACE for dredge/fill activities in U.S. waters.

B.6. Public Health Issues
Leptospirosis Threat
Leptospirosis is not included as a specific water quality standard parameter. However, all inland freshwaters within the State are considered potential sources of Leptospirosis infection by the epidemiology section of HIDOH. No direct tests have been approved or utilized to ascertain the extent of the public health threat through water sampling. Epidemiologic evidence has linked several illness outbreaks to contact with freshwater, leading authorities to issue blanket advisories for all inland freshwaters of the State.

Fish Consumption Advisory
Pearl Harbor and Ala Wai Canal have been identified and posted as areas where fish and shellfish should not be consumed. Contamination of fish and shellfish include organochlorine pesticides and/or polychlorinated biphenyls (PCBs) and lead.
REFERENCES


CHAPTER 3: 2016 §303(d) and §305(b) WATER BODY ASSESSMENTS FOR HAWAII
States are required to obtain and review all existing and readily available State surface water quality data and related information to compare against the applicable water quality standards and characterize water quality. Hawaii’s water quality standards established numeric criteria for various pollutants at levels protective of the water body’s ability to support “fishable and swimmable” conditions. The 2016 State of Hawaii Water Quality Monitoring and Assessment Report presents the results of water body assessments primarily based on the numeric criteria appropriate for supporting environmental health and human recreational health. This report in conjunction with the U.S. Environmental Protection Agency’s (EPA) water quality reporting database serve as the primary vehicles for informing Congress and the public about general water quality conditions in the United States.

The water body assessment results are categorized per EPA’s 2006 Integrated Report guidance (Table 9). Water bodies with pollutant concentrations below the numeric criteria are evaluated as “attaining” (A) and assigned to either category 1 or 2. Water bodies that did not have enough data for evaluation purposes are coded with a "-" and assigned to Category 3. Category 4 describes waters that are not meeting designated uses but do not require a TMDL for various reasons: there is an approved TMDL in place (4a), the impairment is being addressed through other pollution control requirements (4b), or the impairment is not caused by a pollutant (4c). Water bodies that exceed the numeric criteria for one or more pollutants and need a TMDL are evaluated as “not attaining” (N) and assigned to category 5. The water bodies with a category 5 designation constitute the CWA §303(d) list of impaired waters.

### Table 9. Water Body Assessment Categories

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>All designated uses are supported, no use is threatened;</td>
</tr>
<tr>
<td>2</td>
<td>Available data and/or information indicate that some, but not all of the designated uses are supported;</td>
</tr>
<tr>
<td>3</td>
<td>There is insufficient available data and/or information to make a use support determination;</td>
</tr>
<tr>
<td>4</td>
<td>Available data and/or information indicate that at least one designated use is not being supported or is threatened, but a Total Maximum Daily Load (TMDL) is not needed;</td>
</tr>
<tr>
<td>4a</td>
<td>A TMDL to address a specific segment/pollutant combination has been approved or established by EPA;</td>
</tr>
<tr>
<td>4b</td>
<td>A use impairment caused by a pollutant is being addressed by the State through other pollution control requirements;</td>
</tr>
<tr>
<td>4c</td>
<td>A use is impaired, but the impairment is not caused by a pollutant;</td>
</tr>
<tr>
<td>5</td>
<td>Available data and/or information indicate that at least one designated use is not being supported or is threatened, and a TMDL is needed.</td>
</tr>
</tbody>
</table>

A water pollution reduction plan, or TMDL, is required for water bodies that are impaired or not expected to meet State WQS (Category 5), even after the application of technology-based effluent limitations in NPDES permits. The prioritization (low, medium, high) of water bodies for TMDL development is based on the number of parameters not attaining state WQS, severity of exceedences, and resource availability. Review of the Kapaa Stream TMDL (2007) indicated that only TN, TP, and TSS were included. Changes (N to N) were made in the following table to reflect that NO₃+NO₂ and turbidity were not part of the Kapaa Stream TMDL.
The 2016 IR marine assessments are based on DUs bounded by State watershed delineations and distance from shoreline. In contrast with previous IRs, the new watershed DU assessments represent the status of assessed State water bodies (§305(b)) and list of impaired waters (§303(d)). There are some watersheds listed twice due to containing nested scopes of assessment that are classified as an embayment or coastal water body type and thus are compared to different WQS. The nested scopes of assessment indicate where sampling has occurred and provide guidance on pollutant source tracking.

Results do not reflect all water bodies in the State. Hawaii Island will be organized into watershed DUs by the next reporting cycle (i.e. 2018 IR). Scopes of assessment not associated with a CWB watershed DU lack geospatial information to place them in their respective watershed(s). It is important to note that the scopes of assessments contain a number of water bodies similar in name to other water bodies (indicated by an asterisk *); these are not duplicates. These water bodies were listed in previous IRs as separate water bodies from similar sampling stations. Prior assessments confirmed with new data are shaded, and any category changes for previously assessed waters are bolded, italicized, underlined and shaded.

Each water body assessment is categorized according to EPA methods for inland and marine waters. Estuarine waters moved from marine waters to inland waters because HAR Ch. 11-54 classifies estuaries as inland waters. Water bodies are sorted by island (north to south) and then by inland (streams and estuaries) and marine waters. For both inland and marine waters the following applies:

- **Inland Waters Scope of Assessment**
  - EN = Entire Network
  - EE = Entire Estuary
  - ER = Entire Reservoir
  - EW = Entire Wetland
  - EL = Entire Lake

- **Marine Water Body Type**
  - B = Embayment (as specified within HAR Ch. 11-54-6)
  - C = Open Coastal (marine waters from the shoreline to 183 m (600 ft) depth contour)
  - O = Oceanic (marine waters from the 183 m (600 ft) depth contour to 3 miles offshore)
  - E = Estuary
  - K = Kona (all marine waters of Hawaii Island from Loa Point, South Kona District, clockwise to Malae Point, North Kona District, excluding Kawaihae Harbor and Honokohau Harbor, and for all areas from the shoreline at mean lower low water to a distance 1000 m seaward (HAR Ch. 11-54-6))
  - P = Pearl Harbor
Table 10. 2016 Assessment results for inland and marine waters on Kauai, Oahu, Molokai, Lanai, Maui and Hawaii. Most marine water bodies are nested (*) within their respective CWB watershed decision unit. The CWB watershed decision unit is the basis for the status of the State water bodies (§305(b)) and list of impaired waters (§303(d)) for marine waters.

<table>
<thead>
<tr>
<th>Assessed Water Body</th>
<th>Water Body Type</th>
<th>Scope of Assessment</th>
<th>Water Body ID</th>
<th>Season</th>
<th>Enterococcus</th>
<th>TN</th>
<th>NO₃-N</th>
<th>NO₂-N</th>
<th>TP</th>
<th>Turbidity</th>
<th>TSS</th>
<th>Other Pollutants</th>
<th>Category</th>
<th>TMDL Priority</th>
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<td>Aakukui Stream</td>
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<td>A</td>
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<td>Nₜ</td>
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</table>

**Decision Codes:** * = insufficient data, -ₜ = insufficient data (TMDL approved for parameter), A = attained, Nₜ = not attained (TMDL approved for parameter), Ac = attained (with combined season data), Acₜ = attained (with combined season data) (TMDL approved for parameter), N = not attained, Nₜ = not attained (TMDL approved for parameter), Ne = not attained (with combined season data), Neₜ = not attained (with combined data) (TMDL approved for parameter), Nc = not attained (with combined data, 2x the standard), V = visual listing from 2001-2004 (TMDL approved for parameter), Y = previous listing from 1998 or earlier; **Category:** 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; prior assessments confirmed with new data are shaded; **category changes are bolded, italicized, underlined & shaded.**
<table>
<thead>
<tr>
<th>Assessed Water Body</th>
<th>Water Body Type</th>
<th>Scope of Assessment</th>
<th>Water Body ID</th>
<th>Season</th>
<th>Enterococcus</th>
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<th>NO$_3$+NO$_2$</th>
<th>TP</th>
<th>Turbidity</th>
<th>TSS</th>
<th>Other Pollutants</th>
<th>Category</th>
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<tr>
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<td>Stream</td>
<td>EN</td>
<td>2-2-04</td>
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<td>A</td>
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<td>EN</td>
<td>2-2-04</td>
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<td>-</td>
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<td>L</td>
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<td>Stream</td>
<td>EN</td>
<td>2-1-28</td>
<td>Wet</td>
<td>-</td>
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<td>N</td>
<td>Ac</td>
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<td>L</td>
</tr>
<tr>
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<td>Stream</td>
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<td>2-3-01</td>
<td>Dry</td>
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<td>-</td>
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<td>-</td>
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</tr>
<tr>
<td>Limahuli</td>
<td>Stream</td>
<td>EN</td>
<td>2-1-12</td>
<td>Dry</td>
<td>-</td>
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## KAUAI Marine Waters

| CWB Watershed Decision Unit with *Nested IR Scopes of Assessment | Water Body ID | Water Body Type | Wet/Dry Criteria | Enterococcus | TN | NO₂+NO₃ | NH₄ | TP | Turbidity | Chl a | Other Pollutants | Category | TMDL Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **AAKUKUI WATERSHED** | TBD | C | Wet | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Pakala (Makaweli) | H1468251 | C | Wet | - | - | - | - | - | - | - | - | - | - | - | 3 |
| **AEPEO WATERSHED** | TBD | B | Dry | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Kukuiula Bay | H1619039 | B | Dry | - | - | - | - | - | - | - | - | - | - | - | 3 |
| **AEPEO WATERSHED** | TBD | C | Dry | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Spouting Horn Beach Co. Park | H1951651 | C | Dry | - | - | - | - | - | - | - | - | - | - | - | 3 |
| **ANAHOLA WATERSHED** | TBD | C | Wet | - | - | - | - | - | N | - | - | 2,3,5 | L |
| *Anahola Beach | H1823433 | C | Wet | A | - | - | - | N | - | - | - | 2,3,5 | L |
| **HANALEI WATERSHED** | TBD | B | Wet | Aₜ | - | - | - | Nₜ | - | - | - | - | 2,3,4a | |
| *Hanalei Bay (Landing) | HIW00093 | B | Wet | Nₜ | - | - | - | Nₜ | - | - | - | - | 3,4a | TMDLs approved 2012 (Entero & Turbidity) |
| *Hanalei Bay (Pavilion) | HIW00092 | B | Wet | Aₜ | - | - | - | Nₜ | - | - | - | - | 2,3,4a |
| **HANAMAULA WATERSHED** | TBD | B | Wet | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Hanama'ulu Bay (Beach) | HIW00094 | B | Wet | N | - | - | - | N | - | - | - | - | 3,5 | L |
| **HANAPEPE WATERSHED** | TBD | B | Wet | - | A | A | N | A | - | - | - | - | 2,3,5 | L |
| *Port Allen Boat Harbor (Port Allen Pier) | HIW00026 | B | Wet | - | A | A | N | A | - | - | - | - | 2,3,5 |
| **KALIHIKAI CENTER WATERSHED** | TBD | C | Wet | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Anini Beach Park | H1418744 | C | Wet | A | - | - | - | N | - | - | - | - | 2,3,5 | L |
| **KALIHIKA WEST WATERSHED** | TBD | C | Wet | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Anini Beach | H1338804 | C | Wet | - | - | - | - | - | - | - | - | - | - | - | 3 |

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### KAUAI Marine Waters

| CWB Watershed Decision Unit with *Nested IR Scopes of Assessment | Water Body ID | Water Body Type | Wet/Dry Criteria | Enterococcus | TN | NO₃+NO₂ | NH₄ | TP | Turbidity | Chl a | Other Pollutants | Category | TMDL Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **KALIHIWAI WATERSHED** TBD | HI264001 | C | Wet | A | - | - | - | N | - | 2,3,5 | | L |
| *Kalihiwai Bay | | | | | | | | | | | | | | |
| **KAPA WATERSHED** TBD | HI402035 | C | Wet | A | - | - | - | N | - | 2,3,5 | | L |
| *Kalia | | | | | | | | | | | | | | |
| **KAPILOMA WATERSHED** TBD | HI119207 | C | Dry | - | - | - | - | N | - | 2,3,5 | | L |
| *Kekaha Beach Co. Park | HI530569 | C | Dry | A | - | - | - | N | - | 2,3,5 | | L |
| *Kikiaola Beach | | | | | | | | | | | | | | |
| **KAULALUA WATERSHED** TBD | HI247403 | C | Wet | A | - | - | - | N | - | 2,3,5 | | L |
| *Polihi State Park | | | | | | | | | | | | | | |
| **KAUMAKAN WATERSHED** TBD | HI701008 | C | Wet | A | A | N | N | N | N | 2,5 | | L |
| *Salt Pond Beach Co. Park | | | | | | | | | | | | | | |
| **KAUAILOA WATERSHED** TBD | HI798758 | C | Wet | A | - | - | - | N | - | 2,3,5 | | L |
| *Lydgate Park | | | | | | | | | | | | | | |
| **LAWAI WATERSHED** TBD | HI502794 | C | Wet | A | - | - | - | N | - | 2,3,5 | | L |
| *Lawai Beach | | | | | | | | | | | | | | |
| **LIMAHULI WATERSHED** TBD | HI434882 | C | Wet | A | - | - | - | N | - | 2,3,5 | | L |
| *Lawai Kai | | | | | | | | | | | | | | |
| **LUMAHAI WATERSHED** TBD | HI665178 | C | Wet | A | - | - | - | N | - | 2,3,5 | | L |
| *Palama Beach (Nomilu) | | | | | | | | | | | | | | |
| **MAHAULEPU WATERSHED** TBD | HI124511 | C | Wet | A | - | - | - | N | - | 2,3,5 | | L |
| *Kee Beach | | | | | | | | | | | | | | |
| **MAHAULEPU WATERSHED** TBD | HI889639 | C | Wet | N | - | - | - | N | - | 3,5 | | L |
| *Lumaha'i Beach | | | | | | | | | | | | | | |
| **MAHAULEPU WATERSHED** TBD | HI976083 | C | Dry | - | - | - | - | - | 3 | | |
| *Gillin's Beach | | | | | | | | | | | | | | |
| **MAHAULEPU WATERSHED** TBD | HI277808 | C | Dry | - | - | - | - | - | 3 | | |
| *Haula Beach | | | | | | | | | | | | | | |
| **MAHAULEPU WATERSHED** TBD | HI698776 | C | Dry | - | - | - | - | - | 3 | | |
| *Kawaiola Beach | | | | | | | | | | | | | | |

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<th>Wet/Dry Criteria</th>
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**Pacific Missile Range Facility (Open Coastal)**

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### OAHU Inland Waters

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### OAHU Inland Waters

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**Decision Codes:** = insufficient data, _γ_ = insufficient data (TMDL approved for parameter), A = attained, A_γ_ = attained (TMDL approved for parameter), Ac = attained (with combined season data), Ac_γ_ = attained (with combined season data) (TMDL approved for parameter), N = not attained, N_γ_ = not attained (TMDL approved for parameter), Nc = not attained (with combined season data), Nc_γ_ = not attained (with combined data) (TMDL approved for parameter), N1 = not attained (2x the standard), N1_γ_ = not attained (2x the standard, TMDL approved for parameter), N1c = not attained (with combined data, 2x the standard), V = visual listing from 2001-2004 (TMDL approved for parameter), Y = previous listing from 1998 or earlier; **Category:** 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; IP = TMDL development in progress; prior assessments confirmed with new data are shaded; **category changes are bolded, italicized, underlined & shaded**
## OAHU Inland Waters

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Ac = attained (with combined season data),
ATc = attained (with combined season data) (TMDL approved for parameter),
N = not attained,
NT = not attained (TMDL approved for parameter),
Nc = not attained (with combined season data),
NcT = not attained (with combined season data) (TMDL approved for parameter),
N1 = not attained (2x the standard),
N1T = not attained (2x the standard, TMDL approved for parameter),
V = visual listing from 2001-2004,
VT = visual listing from 2001-2004 (TMDL approved for parameter),
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*Category changes are bolded, italicized, underlined & shaded*
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### CWB Watershed Decision Unit with *Nested IR

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| CWB Watershed Decision Unit with *Nested IR Scopes of Assessment | OAHU Marine Waters | Water Body ID | Water Body Type | Wet/Dry Criteria | Enterococcus | TN | NO₃+NO₂ | NH₄ | TP | Turbidity | Chl a | Other Pollutants | Category | TMDL Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MAKAPUU WATERSHED** | TBD | C | Dry | A | - | - | - | - | N | - | - | - | - | - | 2,3,5 | L |
| *Makapuu Beach | HI723399 | C | Dry | A | - | - | - | - | N | - | - | - | - | - | 2,3,5 | L |
| *Kaupo Beach Co. Park | HI791127 | C | Dry | A | - | - | - | - | N | - | - | - | - | - | 2,3 |
| **MAKAUA WATERSHED** | TBD | C | Wet | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Makaua Beach Co. Park | HI542752 | C | Wet | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Swanzey Beach Co. Park | HI151343 | C | Wet | A | - | - | - | - | N | - | - | - | - | - | 2,3 |
| **MALAEKAHANA WATERSHED** | TBD | C | Dry | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Kahuku Golf Course | HI989341 | C | Dry | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Malaeakahana State Park | HI137325 | C | Dry | A | - | - | - | - | N | - | - | - | - | - | 2,3,5 | L |
| **MAKUA WATERSHED** | TBD | C | Dry | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Makua Beach | HI915061 | C | Dry | A | - | - | - | - | N | - | - | - | - | - | 2,3 |
| **MOANALUA WATERSHED** | TBD | B | Wet | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Keehi Lagoon | HIW00009 | B | Wet | N | - | - | - | - | - | - | - | - | - | - | 3,5 | L |
| **NANAKULI WATERSHED** | TBD | C | Dry | A | - | - | - | - | N | - | - | - | - | - | 2,3,5 | L |
| *Nanakuli Beach Park | HI467413 | C | Dry | A | - | - | - | - | N | - | - | - | - | - | 2,3,5 | L |
| **NUI WATERSHED** | TBD | C | Dry | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Niu | HI157026 | C | Dry | - | - | - | - | - | - | - | - | - | - | - | 3 |
| **NUUANU WATERSHED** | TBD | C | Wet | A | - | - | - | - | - | - | - | - | - | - | 2,3 |
| *Kakaako Waterfront | HI302297 | C | Wet | A | - | - | - | - | - | - | - | - | - | - | 2,3 |
| *Sand Island (Shoreline) | HI714359 | C | Wet | A | A | N | A | A | N | N | - | - | - | - | 2,5 | L |
| **OIO WATERSHED** | TBD | C | Dry | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Kaihalulu Beach | HI668562 | C | Dry | A | - | - | - | - | - | - | - | - | - | - | 2,3 |
| *Kuilima Cove | HI412224 | C | Dry | A | - | - | - | - | - | - | - | - | - | - | 2,3 |
| **PAKULENA WATERSHED** | TBD | C | Dry | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Banzai Beach | HI908378 | C | Dry | - | - | - | - | - | - | - | - | - | - | - | 3 |

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<th>Water Body Type</th>
<th>Wet/Dry Criteria</th>
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### OAHU Marine Waters

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## MOLOKAI Inland Waters

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## MOLOKAI Marine Waters

| CWB Watershed Decision Unit with *Nested IR Scopes of Assessment | Water Body ID | Water Body Type | Wet/Dry Criteria | Enterococcus | TN | NO₃+NO₂ | NH₄ | TP | Turbidity | Chl a | Other Pollutants | Category | TMDL Priority |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| HALAWA WATERSHED | TBD | C | Wet | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Halawa Beach Park | HI928793 | C | Wet | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| KOLO WATERSHED | TBD | C | Dry | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Kolo Wharf | HI928768 | C | Dry | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| MO'OMOMI WATERSHED | TBD | C | Dry | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| *Mo'omomi Beach | HI204811 | C | Dry | - | - | - | - | - | - | - | - | - | V | - | - | 3,5 | L |

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## MOLOKAI Marine Waters

### Scopes of Assessment Not Associated with Watershed

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### MOLOKAI Marine Waters

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| CWB Watershed Decision Unit with *Nested IR Scopes of Assessment | Water Body ID | Water Body Type | Wet/Dry Criteria | Entero | TN | NO₃+NO₂ | NH₄ | TP | Turbidity | Chl | Other Pollutants | Category | TMDL Priority |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LANAI Marine Waters** | | | | | | | | | | | | | | |
| **ANAPUKA WATERSHED** | TBD | C | Dry | - | - | - | - | - | - | - | 3 | | |
| *Kaluakoi Point to Huawai Bay | HIW00135 | C | Dry | - | A | A | A | A | A | A | 2,3 | | |
| **KAWAIU WATERSHED** | TBD | C | Dry | - | - | - | - | - | - | - | 3 | | |
| *Kawaiu Gulch-Makole Point | HIW00133 | C | Dry | - | A | A | A | A | A | N | 2,3,5 | L |
| **MAHANALUA WATERSHED** | TBD | C | Dry | - | - | - | - | - | - | - | 3 | | |
| *Mahanalua | HIW00136 | C | Dry | - | N | A | A | A | N | N | 2,3,5 | L |
| **MANELE WATERSHED** | TBD | C | Dry | - | A | A | A | A | A | A | 2,3 | | |
| *Hulupoe Bay | HIW00177 | C | Dry | - | A | A | A | A | A | 2,3 | | |
| *Manele Bay Beach | HIW00178 | C | Dry | - | A | A | A | A | A | A | 2,3 | | |
| **MANELE WATERSHED** | TBD | B | Dry | - | - | - | - | - | - | - | 3 | | |
| *Manele Boat Harbor | HIW00179 | B | Dry | - | A | A | A | A | N | N | 2,3,5 | L | |

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# LANAI Marine Waters

## Scopes of Assessment Not Associated with Watershed

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## MAUI Inland Waters

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## MAUI Marine Waters

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### MAUI Marine Waters

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Decision Codes: - = insufficient data, A = attained, AT = attained (TMDL approved for parameter), N = not attained, NT = not attained (TMDL approved for parameter), V = visual listing from 2001-2004, Y = previous listing from 1998 or earlier; Category: 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; TMDL Priority Codes: High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; IP = TMDL development in progress; prior assessments confirmed with new data are shaded; category changes are bolded, italicized, underlined & shaded.
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**Decision Codes:** - = insufficient data, -/ = insufficient data (TMDL approved for parameter), A = attained, Aₑ = attained (TMDL approved for parameter), Ac = attained (with combined season data), Aₑ = attained (with combined season data) (TMDL approved for parameter), N = not attained, Nₑ = not attained (TMDL approved for parameter), Ne = not attained (with combined season data), Neₑ = not attained (with combined season data) (TMDL approved for parameter), N1 = not attained (2x the standard), N₁ₑ = not attained (2x the standard, TMDL approved for parameter), N1c = not attained (with combined data, 2x the standard), Y = visual listing from 2001-2004, Vₑ = visual listing from 1998 or earlier; Category: 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; IP = TMDL development in progress; prior assessments confirmed with new data are shaded; category changes are bolded, italicized, underlined & shaded.
### HAWAI'I (BIG ISLAND) Inland Waters

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**Decision Codes:** - = insufficient data, VT = insufficient data (TMDL approved for parameter), A = attained, Ac = attained (TMDL approved for parameter), AcT = attained (with combined season data), AcF = attained (with combined season data) (TMDL approved for parameter), N = not attained, N₁ = not attained (TMDL approved for parameter), Ne = not attained (with combined season data), NₑF = not attained (with combined data) (TMDL approved for parameter), N₁ₑ = not attained (2x the standard), Nₑ = not attained (with combined data), 2x the standard, V = visual listing from 2001-2004, Vₑ = visual listing from 2001-2004 (TMDL approved for parameter), Y = visual listing from 1998 or earlier; Category: 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; IP = TMDL development in progress; prior assessments confirmed with new data are shaded; category changes are bolded, italicized, underlined & shaded.
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**Decision Codes:** - = insufficient data, A = attained, A₁ = attained (TMDL approved for parameter), N = not attained, N₄ = not attained (TMDL approved for parameter), Y = visual listing from 2001-2004, Y = previous listing from 1998 or earlier; **Category:** 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; prior assessments confirmed with new data are shaded; **category changes are bolded, italicized, underlined & shaded.**
**Scopes of Assessment Not Associated with Watershed**

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**Decision Codes:** - = insufficient data, A = attained (TMDL approved for parameter), N = not attained, N₄ = not attained (TMDL approved for parameter), V = visual listing from 2001-2004, Y = previous listing from 1998 or earlier; **Category:** 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; IP = TMDL development in progress; prior assessments confirmed with new data are shaded; **category changes are bolded, italicized, underlined & shaded.**
APPENDIX A: Data Sources

City and County of Honolulu (CCH)
The CCH collects bacterial, nutrient and biogeochemical (turbidity, TSS and chlorophyll $a$) samples from shoreline, near shore, and offshore locations as part of their NPDES permit requirements for wastewater treatment plants (WWTP). Water quality data from control stations in receiving water bodies are assessed for the 2016 IR. The WWTPs are located in Waianae, Honouliuli, Sand Island, and Kailua (Mokapu).

Clean Water Branch (CWB)
The CWB collects shoreline bacterial, nutrient and biogeochemical (turbidity, TSS, chlorophyll $a$) samples as part of EPA’s BEACH program. The CWB monitoring and analysis section QA/QC is governed by the CWB Beach Monitoring and Coastal Chemistry Monitoring QAPP.

Discharge Monitoring Reports (DMRs)
NPDES permitted facilities throughout the State (e.g. Sunrise Capital, Agribusiness Development Corp, Port Allen Generating Station, Wailua WWTP, Chevron Hawaii Refinery, East Honolulu WWTP, Fort Kamehameha WWTP, HECO, Kahului Generating Station, Kulaimano WWTP, Papaikou-Paukaa WWTP, Hilo WWTP and Keahole Point Fish) are required to monitor and submit bacterial, nutrient and biogeochemical (turbidity and chlorophyll $a$) data via DMRs. Water quality data from control stations in receiving water bodies are assessed for the 2016 IR. Discharge monitoring reports help provide additional water quality information to the monitoring and analysis program to ensure that Hawaii’s water resources are protected and restored.

Environmental Assessment Company (EAC)

Marine Research Consultants (MRC)
MRC is a private research company headed by Steve Dollar, PhD. MRC collects nutrient and biogeochemical (turbidity and chlorophyll $a$) samples for Haseko (Ewa), Inc. and Makena Resort Corporation to characterize coastal water quality (according to HAR §11-54-6), for Ocean Pointe (formerly the Ewa Marina) on Oahu and Makena Resort on Maui, respectively. All data follow a prepared sampling methodology and documented analysis methodology (Strickland and Parsons 1968, Grasshoff 1983), and utilize EPA rated laboratories (Marine Analytical Specialists).

Natural Energy Laboratory of Hawaii Authority (NELHA)
NELHA is a state funded facility that provides the CWB with nutrient and biogeochemical (turbidity and chlorophyll $a$) data via their Annual Comprehensive Environmental Monitoring Report. The monitoring efforts fulfill regulatory requirements to ensure the protection of Keahole Point’s environmental resources on Hawaii. NEHLA has implemented the standard sampling procedure and analytical protocol of the August 31, 2004, HAR Ch. 11-54 for its quarterly ocean transect sampling program. The NELHA Water Quality Laboratory follows Standard Methods for the Examination of Water and Wastewater 20th Edition (Clesceri et al 1998) and EPA test methods for its analytical procedures.

Center for Biological Diversity (CBD)
The Center for Biological Diversity submitted pH and microplastics data for consideration in the 2016 IR. The CWB has reviewed the data submittal and is not able to assess that information in the context of the IR at this time.
REFERENCES


### APPENDIX B: New Impairment Listings

**Table 11.** 2016 new impairment listings (303(d)) for CWB watershed DUs.

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New watershed assessments confirmed with new data are shaded; *category changes are bolded, italicized, underlined & shaded.*
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New watershed assessments confirmed with new data are shaded; *category changes are bolded, italicized, underlined & shaded.*
Table 12. 2016 new impairment listings (303(d)) for marine water bodies not associated with a watershed.

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Prior assessments confirmed with new data are shaded; category changes are bolded, italicized, underlined & shaded.