

2016 U.S. Virgin Islands 303(d) List of Impaired Waters

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I. SUMMARY

Section 303(d) of the Clean Water Act requires States and Territories to develop a list of impaired waters (needing Total Maximum Daily Loads, TMDLs) every even-numbered calendar year. An impaired waterbody is one for which technology-based pollution controls are not stringent enough to attain or maintain compliance with applicable State and Territory water quality standards. In order for a water quality-limited waterbody to attain water quality standards, a TMDL or other approved alternative management or protection plan must be developed and implemented specifically for that waterbody and/or pollutant(s) combination of concern. A TMDL is a quantitative assessment of the amount of pollution that a certain waterbody can assimilate while still meeting water quality standards.

EPA regulations require States and Territories to:

- Identify water quality limited waters still requiring TMDLs after the implementation of technology-based or other pollution controls.
- Establish a priority ranking of these waters.
- Identify pollutants causing impairment.
- Identify waters targeted to begin TMDL development over the next two (2) years.

II. LIST DEVELOPMENT

This 2016 submission, required under Section 303(d)(1)(A) of the Clean Water Act, identifies waters within the territory of the U.S. Virgin Islands (USVI) that are determined to be, or are suspected to be, “use impaired”. An assessment unit is designated as “use impaired” if the quality of the assessment unit may not meet the water quality standards for protection of designated uses.

The complete list of data sources used to develop the USVI 2016 Section 303(d) list is as follows:

- U.S. Virgin Islands Ambient Monitoring data from Fiscal Years 2013-2015 (VI Department of Planning & Natural Resources ,VIDPNR)
- U.S. Virgin Islands BEACH Monitoring data from Fiscal Years 2014-2015 (VIDPNR)
- 2014 U.S. Virgin Islands Section 305(b) Report (VIDPNR)2014 303(d) List (VIDPNR)

The above list of data represents all existing and readily available data for the 2016 submission. This data is limited and many waters have been listed based on a suspected impairment.

On November 2, 2015, the Division of Environmental Protection (DEP) began its data solicitation notice process announcing that data would be accepted until December 2, 2015. Additionally, letters were sent to the following agencies to request relative data: Environmental Protection Agency (EPA) Region 2; US Fish & Wildlife Service; National Park Service;

University of Virgin Islands-Cooperative Extension Service and Center of Marine and Environmental Services; National Marine Fisheries Service; US Geological Survey and National Oceanic and Atmospheric Administration-National Undersea Research Program and Coral Reef Conservation Program; VI Department of Health; US Department of Agriculture; The Nature Conservancy. There were no responses to submit relative data.

III. DATA NOT USED

From the complete list of data sources used to develop the USVI 2016 Section 303(d) list as noted above in Section II, several data sets were not used. Those data sets, and reasons they were not used, are as follows:

- **pH data taken from AUs in the St. Croix District on 9/10/13, 9/29/13, and 9/30/13:** This data set was not used as these values were flagged in StoRet with the following note: "measured pH value is suspect even though calibration was completed". DPNR has reason to believe that due to the significantly high pH values found across the majority of monitoring stations during these sample dates, as well as the above note in StoRet, that the in-situ readings were not representative of the water quality conditions.
- **All data taken from AUs in the St. Croix District on 12/10/13, 12/11/13, and 12/12/13:** This data set was not used as these values were flagged in StoRet with the following note: "Sampling occurred during repeated heavy rain and large waves. Visible sediment plumes were present from shore to sampling location. Seagrass and garbage were present in water column.". DPNR has reason to believe that due to the significant rain event and effects it had on the water's condition as the above note in StoRet, that the in-situ readings were not representative of the water quality conditions.
- **pH data taken from AUs in the St. Croix District on 9/16/14, 9/17/14, and 9/18/14:** This data set was not used as these values were flagged in StoRet with the following note: "measured pH value is suspect even though calibration was completed". DPNR has reason to believe that due to the significantly high pH values found across the majority of monitoring stations during these sample dates, as well as the above note in StoRet, that the in-situ readings were not representative of the water quality conditions.
- **pH data taken from AUs in the St. Croix District on 12/9/14, 12/12/14, and 12/18/14:** This data set was not used as these values were flagged in StoRet with the following note: "pH value outside expected range despite probe being calibrated and passing calibration checks". DPNR has reason to believe that due to the significantly high pH values found across the majority of monitoring stations during these sample dates, as well as the above note in StoRet, that the in-situ readings were not representative of the water quality conditions.

IV. DELISTING ACTIONS

The following Assessment Unit impairments have been delisted for this cycle:

AU ID	AU Name	Associated Monitoring Stations	Priority	Class	Impairment	ADB Delisting Code
VI-STC-24	Long Reef Back reef	STC-48	Low	B	Enterococci	13
VI-STC-25	Princess subwatershed, offshore	STC-35	Low	B	Turbidity	13
VI-STC-27	Long Reef Forereef, East	STC-35A STC-36	Low	B	pH	13
VI-STC-35	Tamarind Reef Lagoon (Southgate Lagoon)	STC-4	High	B	Dissolved Oxygen	13
VI-STC-35	Tamarind Reef Lagoon (Southgate Lagoon)	STC-4	High	B	Fecal Coliform	13
VI-STC-41	Buck Island Backreef	STC-6, STC-7	Low	A	Turbidity	13
VI-STC-62	Limetree Bay	STC-18	Low	B	Fecal Coliform	13
VI-STC-63	Martin-Marietta Alumina Harbor	STC-19, STC-20	Low	C	Phosphorous	13
VI-STC-65	HOVENSA West	STC-21, STC-22A	Low	B	Enterococci	13
VI-STC-65	HOVENSA West	STC-21, STC-22A	Low	B	Phosphorous	13
VI-STJ-01	Caneel Bay	STJ-54, NPS-1, VI658467	Low	B	Dissolved Oxygen	13
VI-STJ-01	Caneel Bay	STJ-54, NPS-1, VI658467	Low	B	Turbidity	13
VI-STJ-02	Hawksnest Bay	STJ-44B, NPS-3, NPS-4, VI255380	Low	B	Dissolved Oxygen	13
VI-STJ-02	Hawksnest Bay	STJ-44B, NPS-3, NPS-4, VI255380	Low	B	Turbidity	13
VI-STJ-03	Trunk Bay	STJ-44A, NPS-5	Low	A	Dissolved Oxygen	13
VI-STJ-05	Cinnamon Bay	STJ-44C, NPS-6, NPS-7	Low	B	Dissolved Oxygen	13
VI-STJ-06	Maho Bay/Francis Bay	STJ-44D, NPS-8, NPS-9, VI536165	Low	B	Dissolved Oxygen	13
VI-STJ-06	Maho Bay/Francis Bay	STJ-44D, NPS-8, NPS-9, VI536165	Low	B	Turbidity	13
VI-STJ-15	Round Bay	STJ-57, NPS-22, UVI-Supp	Low	B	Enterococci	13
VI-STJ-23	Fish Bay	STJ-48	Low	B	pH	13
VI-STJ-25	Rendezvous Bay subwatershed, offshore	STJ-47, NPS-23, VI204627, VI402599	Low	B	Enterococci	13
VI-STJ-25	Rendezvous Bay subwatershed, offshore	STJ-47, NPS-23, VI204627, VI402599	Low	B	Fecal Coliform	13
VI-STJ-25	Rendezvous Bay subwatershed, offshore	STJ-47, NPS-23, VI204627, VI402599	Low	B	pH	13
VI-STJ-26	Chocolate Hole	STJ-46, NPS-24, VI391298	Low	B	Dissolved Oxygen	13
VI-STJ-26	Chocolate Hole	STJ-46, NPS-24, VI391298	Low	B	pH	13
VI-STJ-26	Chocolate Hole	STJ-46, NPS-24, VI391298	Low	B	Turbidity	13
VI-STJ-29	Turner Bay/Enighed Pond	STJ-55, NPS-26	Low	B	Turbidity	13
VI-STJ-31	Great Cruz Bay Watershed, Offshore	VI456779	Low	B	Turbidity	13

VI-STT-01	Botany Bay	STT-9	Low	B	Enterococci	13
VI-STT-01	Botany Bay	STT-9	Low	B	pH	13
VI-STT-02	Stumpy Bay	STT-10	Low	B	pH	13
VI-STT-04	Santa Maria Bay	STT-11	Low	B	Dissolved Oxygen	13
VI-STT-04	Santa Maria Bay	STT-11	Low	B	pH	13
VI-STT-05	Caret Bay	STT-12	Low	B	Dissolved Oxygen	13
VI-STT-05	Caret Bay	STT-12	Low	B	pH	13
VI-STT-07	Dorothea	STT-13	Low	B	Dissolved Oxygen	13
VI-STT-07	Dorothea	STT-13	Low	B	pH	13
VI-STT-15	Sunsi Bay	STT-17B	Low	B	Dissolved Oxygen	13
VI-STT-15	Sunsi Bay	STT-17B	Low	B	pH	13
VI-STT-15	Sunsi Bay	STT-17B	Low	B	Turbidity	13
VI-STT-16	Spring Bay	STT-17A	Low	B	Dissolved Oxygen	13
VI-STT-16	Spring Bay	STT-17A	Low	B	pH	13
VI-STT-17	Mandahl Bay Subwatershed, Offshore	STT-16A, STT-18, VI577932	Low	B	Dissolved Oxygen	13
VI-STT-17	Mandahl Bay Subwatershed, Offshore	STT-16A, STT-18, VI577932	Low	B	Fecal Coliform	13
VI-STT-17	Mandahl Bay Subwatershed, Offshore	STT-16A, STT-18, VI577932	Low	B	pH	13
VI-STT-22	Red Bay	STT-21B	Low	B	pH	13
VI-STT-24	Red Hook Bay	STT-22A VI1764950	Low	B	Enterococci	13
VI-STT-28	Cowpet Bay	STT-24, STT-24A	Low	B	Dissolved Oxygen	13
VI-STT-32	Jersey Bay, Offshore	STT-25	Medium	B	Fecal Coliform	13
VI-STT-36	Frenchman Bay Subwatershed East	STT-28A, STT-28B, VI951607	Medium	B	Dissolved Oxygen	13
VI-STT-38	Limetree Bay	STT-29B VI776527	Medium	B	Dissolved Oxygen	13
VI-STT-39	Morningstar Bay	STT-30 VI937158	Medium	B	Enterococci	13
VI-STT-51	Krum Bay	STT-4	Low	C	Turbidity	13
VI-STT-53	Cyril E. King Airport Subwatershed, Offshore	STT-6C	Low	B	Dissolved Oxygen	13
VI-STT-54	Perseverance Bay, Offshore	STT-6B	Low	B	Dissolved Oxygen	13
VI-STT-56	Perseverance Bay	STT-7B	Low	B	Dissolved Oxygen	13
VI-STT-57	Fortuna Bay	STT-8	Low	B	Dissolved Oxygen	13
VI-STT-57	Fortuna Bay	STT-8	Low	B	Enterococci	13
VI-STT-57	Fortuna Bay	STT-8	Low	B	Turbidity	13

V. U.S. VIRGIN ISLANDS MONUMENT LANDS

Assessment Units that fall within the National Park Service boundaries were monitored and assessed during this reporting cycle for FY2013-2015.

VI. LISTING ACTION

The EPA released a guidance memorandum for developing the 2016 Integrated Water Quality Monitoring and Assessment Report that serves to supplement all previously-issued assessment guidances issued in 2006, 2008, 2010, 2012 and 2014. Waterbody assessment units are classified into one of five categories. Below are the categories DPNR used for 2016 assessments:

Category 1

The assessment unit is placed in this category if it meets the water quality standards for the parameters that define support for both Primary Contact Recreation (PCR) & Aquatic Life Use Support (ALUS).

Category 2

The assessment unit is placed in this category if it attains water quality standards for the parameters that define support for either PCR or ALUS but data is insufficient to determine support for the other use. In addition, for the assessment unit placed in this category there is no data to indicate if one or both uses are threatened under the US EPA definition of “threatened”. Waters placed within this category will be scheduled for more extensive monitoring in the USVI’s multi-year monitoring schedule.

Category 3

The assessment unit is placed in this category if only insufficient, inconclusive or unreliable/low quality data or no data at all is available to determine if water quality standards are attained and if any of designated uses (PCR or ALUS) is supported.

For the 2016 Integrated Report, DEP proposes the following Category 3 subcategories:

Category 3A

No data is available from data sources the identified, in Section II above data, for the assessment unit in question.

Category 3B

Only insufficient data is available from the identified data sources, in Section II above, for the assessment unit in question. Insufficient data is defined as data collected for less than four quarters during 2 year-period. Such insufficient data precludes VIDPNR from being able to assess if any of the designated uses are supported. The Virgin Islands considers data to be insufficient if it was collected during less than four quarters within 2 year-period. Such data may be reviewed on a case-by-case basis if it strongly suggests that water quality standards are exceeded and the designated uses are impaired. Such waters may be eligible for inclusion on the 303(d) List. Remaining waters with insufficient data will be scheduled for more extensive monitoring in the USVI’s multi-year monitoring schedule.

Category 3C

Only inconclusive data is available from the identified data sources for the assessment unit in question. This might include information from studies that do not directly provide information related to water quality standards. Such as inconclusive data precludes VIDPNR from being able to assess if any of designated uses is supported.

Category 3D

Only unreliable or low quality data is available from the identified data sources for the assessment unit in question. Unreliable or low quality data is defined as data sets that have significant gaps, obvious anomalies, etc. Such unreliable or low quality data precludes VIDPNR from being able to assess if any of the designated uses are supported.

Category 4

Assessment units that are found to be partially supporting or not supporting one or both designated uses are placed in category 4 under the appropriate subcategory (4A, 4B, 4C).

Category 4A

The assessment unit is placed in this category if it was previously listed on the 303(d) list and a TMDL has been already established and approved by EPA.

Category 4B

The assessment unit is placed into this category only if other pollution control requirements are expected to address all water-pollutant combinations and attain all water quality standards within a reasonable period of time. The Virgin Islands considers a reasonable period of time as being the time between reporting cycles. If the impairment is the result of a point source discharge, is expected that the Territorial Pollution Discharge Elimination System (TPDES) program will take appropriate measures to control point source pollution. If the impairment is the result of nonpoint source pollution, DPNR will provide evidence that a pollution control measure is in place.

Category 4C

The assessment unit is placed into this category if the impairment was not caused by a pollutant. Assessment units placed into this category must show improvement by the next reporting cycle. If the impairment persists because of current conditions it will be moved into Category 5. If the assessment unit shows improvement since the last cycle it will be moved into either Category 1 or 2. If the data available is insufficient to make an assessment, the assessment unit will be moved to Category 3 (see Category 3 for more detail).

Category 5

The assessment unit is placed into this category if water quality standards are exceeded in which case a TMDL will be established. Assessment units that are placed into Category 5 will be placed on the 2016 303(d) Total Maximum Daily Load List.

VII. WATERBODY DELINEATION

The US Virgin Islands has created a standard waterbody delineation that organizes the coastal waters of the Virgin Islands into assessment units. This delineation is based on (in order of consideration):

1. Legal limits of water quality classifications
2. Subwatershed boundaries
3. Shoreline geomorphology
4. Benthic geomorphology
5. Bathymetry
6. Benthic habitats
7. 305(d) listing and TMDLs
8. Management areas
9. 305(b) assessment

In the 2016 Integrated Report, these delineated assessment units have been grouped into categories. No assessment unit boundaries have changed since the 2014 assessment.

VIII. ASSESSMENT UNITS LISTED IN 2016

The following assessment units were listed on the 2014 303(d) and remain listed in 2016 for the impairments specified below.

Frederiksted Harbor (VI-STC-02) contains DPNR ambient monitoring stations: STC-28 Frederiksted Pier, STC-29 Frederiksted Public Beach and VI Beach Program monitoring station VI970611 F'sted (Fst. Target). This assessment unit has been listed for Dissolved Oxygen and Turbidity.

Prosperity, nearshore (VI-STC-04) contains DPNR VI Beach Program monitoring station VI252619 Rainbow (Prosperity). This assessment unit has been listed for Turbidity.

Sprat Hall Beach (VI-STC-06) contains DPNR ambient monitoring station STC-30 Sprat Hall Beach and VI Beach Program monitoring station VI645288 Sprat Hall. This assessment unit has been listed for Phosphorus, Turbidity, and Dissolved Oxygen.

Cane Bay (VI-STC-12) contains VI Beach Program monitoring station VI201013 Cane Bay. This assessment unit has been listed for Turbidity.

Baron Bluff Subwatershed (VI-STC-13) contains DPNR ambient monitoring station STC-31 Davis Bay and VI Beach Program monitoring station VI398766 Davis Bay. This assessment unit has been listed for Enterococci, Dissolved Oxygen, and Turbidity.

Salt River Lagoon, Marina (VI-STC-16) contains DPNR ambient monitoring stations STC-33 Salt River Marina and STC-33C Salt River Lagoon, Marina. This assessment unit has been listed for Enterococci, Fecal Coliform and Turbidity.

Salt River Bay (VI-STC-18) contains DPNR ambient monitoring stations STC-33A and B Salt River (Columbus Landing Beach) and VI Beach Program monitoring stations VI146901 Gentle Winds and VI558328 Columbus Landing. This assessment unit has been listed for Enterococci, Turbidity and Fecal Coliform.

St. Croix-By-the-Sea (VI-STC-23) contains DPNR ambient monitoring station STC-34 St. Croix-By-the-Sea and VI Beach Program monitoring station VI738082 Pelican Cove. This assessment unit has been listed for pH and Turbidity.

Christiansted Harbor (VI-STC-26) contains DPNR ambient monitoring stations STC-37 Christiansted Harbor Entrance West, STC-40 St. Croix Marine, STC-41 Gallows Bay, STC-42 Public Wharf, STC-43 Water Gut Storm Drain, STC-44 Protestant Cay Beach, STC-46 WAPA Intake, STC-47 Mill Harbor Condominium Beach, and VI Beach Program monitoring station VI572166 Condo Row (Princess). This assessment unit has been listed for Turbidity.

Christiansted Harbor, East (VI-STC-29) contains DPNR ambient monitoring stations STC-1 Lagoon Recreational Beach, STC-39 Altona Lagoon Inlet and VI Beach Program monitoring station VI213332 New Fort Louise Augusta. This assessment unit has been listed for Dissolved Oxygen, Enterococci, Fecal Coliform and Turbidity.

Beauregard Bay (VI-STC-30) contains DPNR ambient monitoring stations STC-2 Ft. Louise Augusta Beach, STC-38 Christiansted Harbour Entrance-East and VI Beach Program monitoring station VI651587 Buccaneer. This assessment unit has been listed for Secchi Depth, Turbidity and Fecal Coliform.

Buccaneer Beach (VI-STC-31) contains DPNR ambient monitoring station STC-3 Buccaneer Hotel. This assessment unit has been listed for Dissolved Oxygen and Fecal Coliform.

Punnett Bay (VI-STC-33) contains DPNR VI Beach Program monitoring station VI610321 Shoy's. This assessment unit has been listed for Turbidity.

Green Cay Beach (VI-STC-36) contains DPNR VI Beach Program monitoring station VI563397 Chenay Bay Beach. This assessment unit has been listed for Enterococci and Turbidity.

Southgate Subwatershed, Offshore (VI-STC-37) contains DPNR ambient monitoring station STC-5 Green Cay Beach. This assessment unit has been listed for Dissolved Oxygen, Fecal Coliform, Enterococci and Turbidity.

Teague Bay (VI-STC-39) contains DPNR ambient monitoring stations STC-8 Reef Club Beach, STC-9 St. Croix Yacht Club Beach, UVI Supplemental Site and VI Beach Program monitoring station VI381319 Teague Bay (Reef). This assessment unit has been listed for Dissolved Oxygen, Turbidity, pH and Fecal Coliform.

Teague Bay Backreef (VI-STC-40) contains DPNR ambient monitoring station STC-10 Cramer's Park and VI Beach Program monitoring station VI351774 Cramer's Park. This assessment unit has been listed for Turbidity, pH and Fecal Coliform.

Grapetree Bay (VI-STC-46) contains DPNR ambient monitoring station STC-11B Isaacs Bay Forereef. This assessment unit has been listed for Dissolved Oxygen.

Turner Hole Backreef (VI-STC-47) contains VI Beach Program monitoring station VI297470 Grapetree Beach. This assessment unit has been listed for Enterococci and Turbidity.

Bugby Hole Backreef (VI-STC-56) contains DPNR ambient monitoring stations STC-14A Halfpenny Bay - Manchenil, STC-14B Halfpenny Backreef and VI Beach Program monitoring station VI931289, Halfpenny. This assessment unit has been listed for Enterococci, Phosphorus and Turbidity.

Canegarden Bay (VI-STC-59) contains DPNR ambient monitoring station STC-15 Canegarden Bay. This assessment unit has been listed for Phosphorus and Turbidity.

Hess Oil Virgin Islands Harbor (VI-STC-61) contains DPNR ambient monitoring stations STC-16 HOVENSA East Turning Basin, NW Corner and STC-17 HOVENSA West Turning Basin, NW Corner. This assessment unit has been listed for Enterococci, Phosphorus, Temperature, Dissolved Oxygen and Turbidity.

Limetree Bay (VI-STC-62) contains DPNR ambient monitoring station STC-18 Limetree Bay Container Port. This assessment unit has been listed for Fecal Coliform.

Martin-Marietta Alumina Harbor (VI-STC-63) contains DPNR ambient monitoring stations STC-19 Krause Lagoon Channel and STC-20 Alumina Plant Dock. This assessment unit has been listed for Dissolved Oxygen.

Manning Bay/Estate Anguilla Beach (VI-STC-64) contains DPNR ambient monitoring station STC-23 Public Dump. This assessment unit has been listed for Turbidity, Phosphorus and Fecal Coliform.

HOVENSA, West (VI-STC-65) contains DPNR ambient monitoring stations STC-21 Spoils (Ruth) Island and STC-22A Treatment Plant (POTW) Outfall. This assessment unit has been listed for Fecal Coliform.

Diamond Subwatershed, Offshore (VI-STC-75) contains DPNR ambient monitoring station STC-24B Rum Plant (VI Rum) Outfall. This assessment unit has been listed for Dissolved Oxygen, Turbidity, Phosphorus, Enterococci, Secchi Depth and Toxicity.

Carlton Beach (VI-STC-76) contains DPNR ambient monitoring station STC-25 Long Point. This assessment unit has been listed for Dissolved Oxygen and Turbidity.

Good Hope Beach (VI-STC-79) contains DPNR ambient monitoring station STC-26. This assessment unit has been listed for Enterococci.

Sandy Point, Nearshore West (VI-STC-82) contains DPNR ambient monitoring station STC-27 Sandy Point Public Beach, and VI Beach Program monitoring stations VI896490 Dorsch Bay and VI907985 Stony Ground. This assessment unit has been listed for Enterococci, Turbidity and Dissolved Oxygen.

Coral Harbor (VI-STJ-13) contains DPNR ambient monitoring stations STJ-53 Coral Bay and STJ-56 Johnson Bay, NPS monitoring stations NPS-15 Coral Bay Dock, NPS-16 Johnson Bay, UVI Supplemental Site and VI Beach Program monitoring stations VI823989 Johnson's Bay. This assessment unit has been listed for Enterococci, Turbidity and pH.

Great Lameshur Bay (VI-STJ-19) contains DPNR ambient monitoring stations STJ-50, STJ-51, and UVI Supplemental Site. This assessment unit has been listed for Turbidity and pH.

Fish Bay (VI-STJ-23) contains DPNR ambient monitoring stations STJ-48 Fish Bay and NPS monitoring station NPS-22 Fish Bay. This assessment unit has been listed for Turbidity.

Rendezvous Bay subwatershed, offshore (VI-STJ-25) contains DPNR ambient monitoring station STJ-47 Rendezvous Bay, NPS monitoring station NPS-23 Rendezvous Bay, and VI Beach Program monitoring stations VI204627 Klain Bay and VI402599 Hart Bay. This assessment unit has been listed for Turbidity.

Great Cruz Bay (VI-STJ-28) contains DPNR ambient monitoring stations STJ-45 Great Cruz Bay, NPS monitoring stations NPS-25 Great Cruz Bay and VI Beach Program monitoring station VI779192 Great Cruz Bay. This assessment unit has been listed for Turbidity, Dissolved Oxygen and pH.

Cruz Bay (VI-STJ-30) contains DPNR ambient monitoring stations STJ-43A Cruz Bay, North; STJ-43B Cruz Bay, South; STJ-43C Cruz Bay, North of Seaplane Ramp; STJ-43D Cruz Bay, Creek North; NPS-27 Cruz Bay (ferry dock); NPS-28 Cruz Bay (airplane ramp); NPS-29 Cruz Bay (NPS dock); and VI Beach Program monitoring station VI309453 Cruz Bay. This assessment unit has been listed for Fecal Coliform, Turbidity, Secchi Depth, Dissolved Oxygen, pH and Enterococci.

Southwest St. John, Offshore (VI-STJ-32) contains DPNR ambient monitoring station STJ-OFF4. This assessment unit has been listed for Turbidity.

Stumpy Bay (VI-STT-02) contains DPNR ambient monitoring station STT-10 Stumpy Bay. This assessment unit has been listed for Turbidity.

Santa Maria Bay (VI-STT-04) contains DPNR ambient monitoring station STT-11 Santa Maria Bay. This assessment unit has been listed for Turbidity.

Caret Bay (VI-STT-05) contains DPNR ambient monitoring station STT-12 Caret Bay. This assessment unit has been listed for Turbidity.

Dorothea (VI-STT-07) which contains DPNR ambient monitoring station STT-13 Dorothea. This assessment unit has been listed for Turbidity.

Hull Bay (VI-STT-08) contains DPNR ambient monitoring station STT-14 Hull Bay and VI Beach Program monitoring station VI616865 Hull Bay. This assessment unit has been listed for Dissolved Oxygen, pH and Turbidity.

Magen's Bay (VI-STT-10) contains DPNR ambient monitoring stations STT-15, STT-15A, STT-15B Magens Bay and VI Beach Program monitoring station VI672756 Magen's Bay. This assessment unit has been listed for Turbidity, Dissolved Oxygen, pH and Enterococci.

Mandahl Bay (Marina) (VI-STT-13) contains DPNR ambient monitoring stations STT-16B Mandahl Bay Entrance, STT-16C Mandahl Point Entrance. This assessment unit has been listed for Enterococci, Fecal Coliform, Dissolved Oxygen, and pH.

Mandahl Bay Subwatershed, Offshore (VI-STT-17) contains DPNR ambient monitoring stations STT-16A Mandahl Bay, STT-18 Coki Point Bay and VI Beach Program monitoring station VI577932 Coki Point. This assessment unit has been listed for Turbidity.

Water Bay (VI-STT-18) contains DPNR ambient monitoring station STT-19 Water Bay and VI Beach Program monitoring station VI591668 Water Bay. This assessment unit has been listed for Dissolved Oxygen and pH.

Smith Bay (VI-STT-19) contains DPNR ambient monitoring station STT-20 Smith Bay and VI Beach Program monitoring station VI431925 Lindquist Beach. This assessment unit has been listed for Dissolved Oxygen and Turbidity.

St. John Bay (VI-STT-21) contains DPNR ambient monitoring station STT-21A St. John Bay and VI Beach Program monitoring station VI327776 Sapphire Beach. This assessment unit has been listed for Dissolved Oxygen and Turbidity.

Red Bay (VI-STT-22) contains DPNR ambient monitoring station STT-21B Red Bay. This assessment unit has been listed for Dissolved Oxygen, Turbidity.

Vessup Bay (VI-STT-23) contains DPNR ambient monitoring station STT-22B Vessup Bay. This assessment unit has been listed for Temperature and Enterococci.

Red Hook Bay (VI-STT-24) contains DPNR ambient monitoring station STT-22A Red Hook Bay and VI Beach Program monitoring station VI764950 Vessup Bay. This assessment unit has been listed for Turbidity.

Great Bay (VI-STT-25) contains DPNR ambient monitoring station STT-23 Great Bay and VI Beach Program monitoring station VI505006 Bluebeards Beach. This assessment unit has been listed for Dissolved Oxygen and Turbidity.

Nazareth Bay (VI-STT-31) contains VI Beach Program monitoring station VI389422 Secret Harbor. This assessment unit has been listed for Turbidity.

Benner Bay Lagoon Marina (VI-STT-34) contains DPNR ambient monitoring stations STT-27D Mangrove Lagoon, Near La Vida Marina and STT-27E Mangrove Lagoon, Near Compass Point. This assessment unit has been listed for Enterococci.

Mangrove Lagoon (VI-STT-35) contains DPNR ambient monitoring stations STT-27A Mangrove Lagoon, Near Treatment Plant, STT-27B Mangrove Lagoon, Off Sanitary Landfill (East of Eco-tours) and STT-27C Mangrove Lagoon, Near Tropical Marine Fuel Dock. This assessment unit has been listed for Temperature, Dissolved Oxygen* (TMDL in place for BOD) and Enterococci.

Frenchman Bay Subwatershed East (VI-STT-36) contains DPNR ambient monitoring stations STT-28A Bovoni Bay, STT-28B Bolongo Bay and VI Beach Program monitoring station VI951607 Bolongo Bay. This assessment unit has been listed for Turbidity.

Frenchman Bay (VI-STT-37) contains DPNR ambient monitoring station STT-29A Frenchman Bay and VI Beach Program monitoring station VI891065 Frenchman's Bay. This assessment unit has been listed for Dissolved Oxygen and Turbidity.

Limetree Bay (VI-STT-38) contains DPNR ambient monitoring station STT-29B Limetree Bay and VI Beach Program monitoring station VI776527 Limetree Bay. This assessment unit has been listed for Turbidity.

Morningstar Bay (VI-STT-39) contains DPNR ambient monitoring station STT-30 Morningstar Bay and VI Beach Program monitoring station VI937158 Morningstar Bay. This assessment unit has been listed for Turbidity.

St. Thomas Harbor, Inner (VI-STT-43) contains DPNR ambient monitoring stations STT-31B Hassel Island, Off Navy Dock, STT-31C Hassel Island, Careening Cove, STT-32A Long Bay, Near South Dolphin, STT-32B Long Bay, Northeast Corner, STT-33A Long Bay, Off Outfall, STT-33B Long Bay, Off Outfall, STT-34 Long Bay, Off Pump Station, STT-35 Groden Bay, STT-36 St. Thomas Harbor, North of Coast Guard Dock, STT-37 St. Thomas Harbor, Cay Bay and STT-38 Haulover Cut. This assessment unit has been listed for Turbidity.

Hassel Island at Haulover Cut to Regis Point (VI-STT-47) contains DPNR ambient monitoring stations STT-2 Crown Bay, Near Tamarind Outlet and STT-3 Subbase. This assessment unit has been listed for Turbidity.

Druif Bay (VI-STT-49) contains DPNR ambient monitoring station STT-40 Water Isle Hotel Beach. This assessment unit has been listed for Turbidity.

Flamingo Bay (VI-STT-50) contains DPNR ambient monitoring station STT-41 Water Island Flamingo Bay. This assessment unit has been listed for Turbidity.

Lindbergh Bay (VI-STT-52) contains DPNR ambient monitoring stations STT-5A Lindbergh Bay East, STT-5B Lindbergh Bay West and VI Beach Program monitoring station VI514102 Lindbergh Bay. This assessment unit has been listed for Dissolved Oxygen and Turbidity.

Perseverance Bay, Offshore (VI-STT-54) contains DPNR ambient monitoring station STT-6B College Cove. This assessment unit has been listed for Turbidity.

Brewers Bay (VI-STT-55) contains DPNR ambient monitoring station STT-7A Brewers Bay and VI Beach Program monitoring station VI293962 Brewer's Bay. This assessment unit has been listed for Dissolved Oxygen and Turbidity.

The following assessment units are new to the 303(d) list and/or have new associated monitoring stations with impairments.

Sprat Hall Beach (VI-STC-06) contains DPNR ambient monitoring station STC-30 Sprat Hall Beach and VI Beach Program monitoring station VI645288 Sprat Hall. This assessment unit is now also listed for Enterococci.

Cane Bay (VI-STC-12) contains VI Beach Program monitoring station VI201013 Cane Bay. This assessment unit is now also listed for Phosphorous.

Salt River Bay (VI-STC-18) contains DPNR ambient monitoring stations STC-33A, B Salt River (Columbus Landing Beach) and VI Beach Program monitoring stations VI146901 Gentle Winds and VI558328 Columbus Landing. This assessment unit is now also listed for Dissolved Oxygen.

Christiansted Harbor (VI-STC-26) contains DPNR ambient monitoring stations STC-37 Christiansted Harbor Entrance West, STC-40 St. Croix Marine, STC-41 Gallows Bay, STC-42 Public Wharf, STC-43 Water Gut Storm Drain, STC-44 Protestant Cay Beach, STC-46 WAPA Intake, STC-47 Mill Harbor Condominium Beach, and VI Beach Program monitoring station VI572166 Condo Row (Princess). This assessment unit is now also listed for pH, Fecal Coliform, Enterococci and Dissolved Oxygen.

Long Reef Forereef, East (VI-STC-27) contains DPNR ambient monitoring stations STC-35A and STC-36. This assessment unit is now also listed for Fecal Coliform

Christiansted Harbor, east (VI-STC-29) contains DPNR ambient monitoring stations STC-1 Lagoon Recreational Beach, STC-39 Altona Lagoon Inlet and VI Beach Program monitoring station VI213332 New Fort Louise Augusta. This assessment unit is now also listed for pH.

Beauregard Bay (VI-STC-30) contains DPNR ambient monitoring stations STC-2, STC-38 and VI Beach Program monitoring station VI651587. This assessment unit is now also listed for pH.

Turner Hole Backreef (VI-STC-47) contains VI Beach Program monitoring station VI297470 Grapetree Beach. This assessment unit is now also listed for Fecal Coliform.

Great Pond Bay (VI-STC-47) contains DPNR ambient monitoring station STC-13A Great Pond Bay. This assessment unit is now also listed for Fecal Coliform.

Bugby Hole Backreef (VI-STC-56) contains DPNR ambient monitoring stations STC-14A Halfpenny Bay - Manchenil, STC-14B Halfpenny Backreef and VI Beach Program monitoring station VI931289, Halfpenny. This assessment unit is now also listed for Fecal Coliform and pH.

Canegarden Bay (VI-STC-59) contains DPNR ambient monitoring station STC-15 and STC-15A. This assessment unit is now also listed for Dissolved Oxygen.

Limetree Bay (VI-STC-62) contains DPNR ambient monitoring station STC-18. This assessment unit is now also listed for Dissolved Oxygen.

Manning Bay/Estate Anguilla Beach (VI-STC-64) contains DPNR ambient monitoring station STC-23. This assessment unit is now also listed for Dissolved Oxygen.

HOVENSA West (VI-STC-65) contains DPNR ambient monitoring stations STC-21, and STC-22A. This assessment unit is now also listed for Dissolved Oxygen.

Good Hope Beach (VI-STC-79) contains DPNR ambient monitoring station STC-26 Good Hope Beach. This assessment unit is now also listed for Dissolved Oxygen.

Great Lameshur Bay (VI-STJ-19) contains DPNR ambient monitoring station UVI Supplemental Site. This assessment unit is now also listed for Phosphorous.

Fish Bay (VI-STJ-23) contains DPNR ambient monitoring station STJ-48. This assessment unit is now also listed for Phosphorous and Dissolved Oxygen.

Cruz Bay (VI-STJ-30) contains DPNR ambient monitoring stations STJ-43A, STJ-43B, STJ-43C, STJ-43D, and NPS monitoring stations NPS-28 and NPS-29, and VI Beach Program monitoring station VI309453. This assessment unit is now also listed for Phosphorous.

Botany Bay (VI-STT-01) contains DPNR ambient monitoring station STT-9. This assessment unit is now also listed for Turbidity.

Mandahl Bay (Marina) (VI-STT-13) contains DPNR ambient monitoring stations STT-16B, and STT-16C. This assessment unit is now also listed for Turbidity.

Mandahl Bay Subwatershed, Offshore (VI-STT-17) contains DPNR ambient monitoring stations STT-16A, and STT-18 and VI Beach Program monitoring station VI577932. This assessment unit is now also listed for Enterococci.

Vessup Bay (VI-STT-23) contains DPNR ambient monitoring station STT-22B. This assessment unit is now also listed for Fecal Coliform and Turbidity.

Cowpet Bay (VI-STT-28) contains DPNR ambient monitoring stations STT-24, and STT-24A. This assessment unit is now also listed for Turbidity.

Benner Bay Lagoon Marina (VI-STT-34) contains DPNR ambient monitoring stations STT-27D, and STT-27E. This assessment unit is now also listed for Turbidity and Dissolved Oxygen.

Mangrove Lagoon (VI-STT-35) contains DPNR ambient monitoring stations STT-27A, STT-27B and STT-27C. This assessment unit is now also listed for Turbidity and Dissolved Oxygen.

Frenchman Bay, Subwatershed East (VI-STT-36) contains DPNR ambient monitoring stations STT-28A, STT-28B and VI Beach Program monitoring station VI951607. This assessment unit is now also listed for Phosphorous.

Frenchman Bay (VI-STT-37) contains DPNR ambient monitoring station STT-29A and VI Beach Program monitoring station VI891065. This assessment unit is now also listed for Enterococci.

Pacquereau Bay (VI-STT-40) contains DPNR ambient monitoring station STT-31A. This assessment unit is now also listed for Turbidity.

St. Thomas Harbor, Inner (VI-STT-43) contains DPNR ambient monitoring stations STT-31B, STT-31C, STT-32A, STT-32B, STT-33A, STT-33B, STT-34, STT-35, STT-36, STT-37, and STT-38. This assessment unit is now also listed for Enterococci.

Gregerie Channel (VI-STT-45) contains DPNR ambient monitoring stations STT-1 and STT-39. This assessment unit is now also listed for Turbidity.

Sprat Bay (VI-STT-46) contains DPNR ambient monitoring station STT-42. This assessment unit is now also listed for Turbidity.

Cyril E. King Airport Subwatershed, Offshore (VI-STT-53) contains DPNR ambient monitoring station STT-6C. This assessment unit is now also listed for Turbidity.

IX. HIGH PRIORITY WATERS

In this reporting cycle, DPNR-DEP has prioritized waters based on whether the impairment is likely due to human or physical factors, the size of the assessment unit, and the proximity of impaired assessment units to one another.

High priority assessment units are scheduled for TMDLs to be established in the year listed as follows:

VI-STC-33 Punnett Bay (2018)
VI-STC-35 Tamarind Reef Lagoon (Southgate Lagoon) (2018)
VI-STC-36 Green Cay Beach (2018)
VI-STC-37 Southgate Subwatershed, Offshore (2018)
VI-STJ-13 Coral Harbor (2018)
VI-STJ-15 Round Bay (2018)

X. MEDIUM PRIORITY WATERS

The following assessment units have been itemized as medium priority assessment units

VI-STT-32 Jersey Bay, Offshore (2019)
VI-STT-34 Benner Bay Lagoon Marina (2019)
VI-STT-35 Mangrove Lagoon (2019)
VI-STT-36 Frenchman Bay Subwatershed East (2020)
VI-STT-37 Frenchman Bay (2020)
VI-STT-38 Limetree Bay (2020)
VI-STT-39 Morningstar Bay (2021)
VI-STT-40 Pacquereau Bay (2021)
VI-STJ-23 Fish Bay (2019)
VI-STJ-25 Rendezvous Bay subwatershed, offshore (2019)
VI-STJ-26 Chocolate Hole (2019)

XI. TMDL SCHEDULE

DPNR-DEP has developed a schedule for completion of TMDLs for several waters on the 2014 303(d) list although not required by EPA regulations. TMDL development for high priority assessment units are detailed under Section VI of this document; while, medium priority assessment units are detailed under Section VII above.

Low priority assessment units are listed and/or scheduled as follows:

VI-STC-02 Frederiksted Harbor (2020), VI-STC-04 Prosperity, nearshore (2020), VI-STC-06 Sprat Hall Beach (2020), VI-STC-12 Cane Bay (2021), VI-STC-13 Baron Bluff subwatershed (2023), VI-STC-16 Salt River Lagoon, Marina (2019), VI-STC-18 Salt River Bay (2019), VI-STC-23 St. Croix-By-the-Sea (2023), VI-STC-24 Long Reef Back reef, west (2023), VI-STC-25 Princess subwatershed, offshore (2023), VI-STC-26 Christiansted Harbor (2023), VI-STC-27 Long Reef Forereef, East (2023), VI-STC-29 Christiansted Harbor, East (2023), VI-STC-30 Beauregard Bay (2023), VI-STC-31 Buccaneer Beach (2025), VI-STC-39 Teague Bay (2027), VI-STC-40 Teague Bay Backreef (2027), VI-STC-41 Buck Island Backreef (2027), VI-STC-46 Grapetree Bay (2029), VI-STC-47 Turner Hole Backreef (2029), VI-STC-52 Great Pond Bay (2031), VI-STC-56 Buggy Hole Backreef (2031), VI-STC-59 Canegarden Bay (2031), VI-STC-61 Hess Oil Virgin Islands Harbor (2031), VI-STC-62 Limetree Bay (2031), VI-STC-63 Martin-Marietta Alumina Harbor (2031), VI-STC-64 Manning Bay/Estate Anguilla Beach (2031), VI-STC-65 Hovensha, West (2031), VI-STC-75 Diamond Subwatershed, Offshore (2020), VI-STC-76 Carlton Beach (2020), VI-STC-79 Good Hope Beach (2021), VI-STC-82 Sandy Point, Nearshore West (2021), VI-STJ-01 Caneel Bay (2020), VI-STJ-02 Hawksnest Bay (2020), VI-STJ-03 Trunk Bay (2020), VI-STJ-05 Cinnamon Bay (2020), VI-STJ-06 Maho Bay/Francis Bay

(2021), VI-STJ-19 Great Lamshur Bay (2020), VI-STJ-21 Genti, nearshore (2020), VI-STJ-28 Great Cruz Bay (2021), VI-STJ-29 Turner Bay/Enighed Pond (2022), VI-STJ-30 Cruz Bay (2022), VI-STJ-31 Great Cruz Bay Watershed, Offshore (2022), VI-STJ-32 Southwest St. John HUC 14, Offshore (2022); VI-STT-01 Botany Bay (2020), VI-STT-02 Stumpy Bay (2020), VI-STT-04 Santa Maria Bay (2019), VI-STT-05 Caret Bay (2022), VI-STT-07 Dorothea (2022), VI-STT-08 Hull Bay (2022), VI-STT-10 Magen's Bay (2022), VI-STT-13 Mandahl Bay (Marina) (2021), VI-STT-15 Sunsi Bay (2021), VI-STT-16 Spring Bay (2023), VI-STT-17 Mandahl Bay Subwatershed, Offshore (2023), VI-STT-18 Water Bay (2024), VI-STT-19 Smith Bay (2024), VI-STT-21 St. John Bay (2024), VI-STT-22 Red Bay (2024), VI-STT-23 Vessup Bay (2024), VI-STT-24 Red Hook Bay (2024), VI-STT-25 Great Bay (2026), VI-STT-28 Cowpet Bay (2026), VI-STT-31 Nazareth Bay (2026), VI-STT-43 St. Thomas Harbor, Inner (2030), VI-STT-47 Hassel Island at Haulover Cut to Regis Point (2030), VI-STT-49 Druif Bay (2030), VI-STT-45 Gregerie Channel (2030), VI-STT-46 Sprat Bay (2030), VI-STT-50 Flamingo Bay (2030), VI-STT-51 Krum Bay (2030), VI-STT-52 Lindbergh Bay (2032), VI-STT-53 Cyril E. King Airport Subwatershed, Offshore (2032), VI-STT-54 Perseverance Bay, Offshore (2033), VI-STT-55 Brewers Bay (2033), VI-STT-56 Perseverance Bay (2033) and VI-STT-57 Fortuna Bay (2033).

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