State Priorities Definition for WQ-27

About this file:

What this template is: This template is to be used by states to define their WQ-27 priorities. It can be used in conjunction with or instead of submitting GIS shapefiles.
Upon submitting this template, EPA will review and process the data and will provide a file for the state to review and verify.

Who should use this template: Any state that does not have GIS data that defines their priorities must use this template. Any state that has GIS data but needs to refine that data by causes and/or uses shou
enter the causes/uses.

Basic Excel help: To access a drop-down list within a specific cell, select the cell. You should see a "down arrow" icon appear on the right side of the cell. Click the arrow icon to see the list of va

Please do not merge cells or concatentate data into a single cell (e.g. do not list more than one cause of impairment in a single cell).

Instructions for filling out the worksheet tabs:

State Information

Step 1: Select your state from the State drop-down list. This field is REQUIRED.

Note: After you select a state, a list of the causes and uses used by that state in their most recent ATTAINS cycle will appear at the bottom of the page. **If you are defining pric
and/or uses, please make sure that the cause and/or use names that you enter exactly match the cause and use names in these lists (e.g., if you copy and paste from a sepa**

Step 2: Select the baseline cycle for your priorities. All priorities must have the same baseline cycle. The baseline cycle should be the most recent cycle for which you have IR (or 303(d
field is REQUIRED.

Step 3: The default goal cycle is 2022. You should only change this if advised to do so by EPA.

Step 4: Enter a contact name. If this field is left blank, EPA will assume that the person sending the template to HQ is the contact person.

Step 5: Enter a contact email. If this field is left blank, EPA will assume the email address of the person sending the template to HQ is the contact email address.

Step 6: *Are you submitting WQ-27 GIS data to further refine the priorities defined here?* This field is REQUIRED.

* If you are submitting WQ-27 GIS data to help define your priorities, select "Yes".
* Otherwise, select "No".

Step 7: *If you are defining one or more of your priorities by HUC or other polygon, how should EPA process them?* This field is REQUIRED.

* If you are not using HUCs or other polygons to define your priorities, select "Not applicable".
* If you are using HUCs or other polygons to define your priorities, the default procedure will be for EPA to identify within those HUCs or other polygons only the assessment u
state's 303(d) list in the baseline cycle.
  - If that is how you want the priority universe to be defined, select "Default processing".
  - If you want EPA to include ALL assessment units in the HUC or other polygon, impaired or not, select "Include supporting AUs".

Reference Info After a state is selected, the following pieces of information appear at the bottom of the page:

* A link to the ATTAINS state report for that state. If you are not sure which Assessment Unit IDs were used for ATTAINS reporting for your baseline cycle, you can visit this rep

your data in ATTAINS.
* The Causes and Uses that were used by that state in the most recent data submission to ATTAINS (at the time this template was created). These Causes and Uses also appea
the drop-down lists in the Cause Name and Use Desc columns on the WQ-27 Priorities worksheet. If you are using Causes and/or Uses to define your priorities, in almost all ca

should ensure you are using the same Cause or Use terminology.

WQ-27 Priorities

Each column is optional. You can fill in more than one column per row, per the instructions below.
Please do not merge cells or concatentate data into a single cell (e.g. do not list more than one cause of impairment in a single cell).

Priority ID If you have multiple priorities and you would like to group them by a user-defined priority ID, you may use this column to do so. This field is OPTIONAL.

HUC If you are using HUCs to define your priorities, enter them in this column. You may use any size HUC you'd like (HUC8, HUC12, HUC14, etc.). This field is OPTIONAL.

Assessment Unit ID If you are using Assessment Unit IDs to define your priorities, enter them in this column. Please ensure that the Assessment Unit IDs you enter exactly match the Assessment
ATTAINS for your baseline cycle. If your priorities also includes Causes and/or Uses and an Assessment Unit ID has more than one Cause or Use in your priorities, enter each As
and/or Assessment Unit/Use combination on a separate row. This field is OPTIONAL.

Cause Name If you are using Causes to define your priorities, enter them in this column. For any row that contains a Cause name but no HUC or Assessment Unit ID, EPA will assume that al
the baseline cycle (OR, if you answered "Yes" in Step 6 above, all Causes on 303(d)-listed waters found in the GIS priority submission) that are impaired for the specified Cause
universe. When selecting any cell in the Cause Name column, a drop-down list of valid Causes for the current state will appear. In almost all cases, you should select a valid Cau
list. PLEASE DO NOT ENTER MORE THAN ONE CAUSE PER ROW.

Use Desc If you are using Uses to define your priorities, enter them in this column. For any row that contains a Use name but no HUC or Assessment Unit ID, EPA will assume that all wa
specified Use in the baseline cycle (OR, if you answered "Yes" in Step 6 above, all Uses on waters found in the GIS priority submission) should go into the priority universe. Wh
Use Desc column, a drop-down list of valid Uses for the current state will appear. In almost all cases, you should select a valid Use from this drop-down list. This field is OPTION
used by states that submitted integrated reporting (IR) data to ATTAINS in the baseline cycle. PLEASE DO NOT ENTER MORE THAN ONE USE PER ROW.

WQ-27 Priorities - EXAMPLES

See this page for examples on how to populate the WQ-27 Priorities tab.

Step 1:	State:	AZ
Step 2:	Baseline Cycle:	2010
Step 3:	Goal Cycle:	2022
Step 4:	Contact Name:	
Step 5:	Contact Email:	
Step 6:	Are you submitting WQ-27 GIS data to further refine the priorities defined here?	Yes
Step 7:	If you are defining one or more of our priorities by HUC or other polygon, how should EPA process them?	Include supporting AUs

Reference Info

ATTAINS State Report URL

After you select a state, a link to the states's ATTAINS state report will appear here:

Available Causes and Uses for the Selected State

After you select a state, a list of the causes and uses used by that state in their most recent
make sure that the cause and/or use names that you select exactly match the cause and us

AVAILABLE CAUSES FOR AZ

AMMONIA, UN-IONIZED
AQUATIC PLANTS - NATIVE
ARSENIC
BERYLLIUM
BORON
CADMIUM
CHLORDANE
CHLORINE
COPPER
DDT
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
LEAD
MERCURY IN FISH TISSUE
NITROGEN, TOTAL
PH
PHOSPHORUS, ELEMENTAL
PHOSPHORUS, TOTAL
SEDIMENTATION/SILTATION
SELENIUM
TOXAPHENE
ZINC

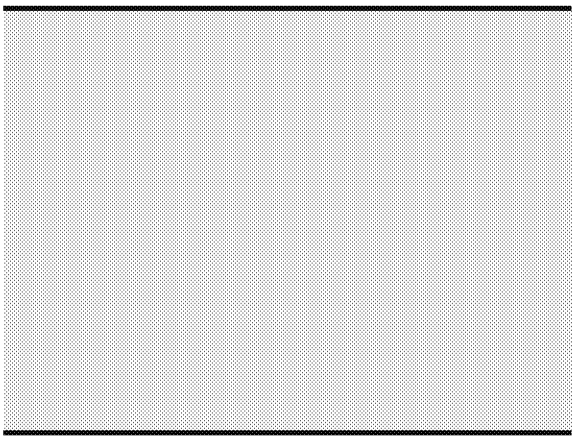
Please select a state from drop-down.This field is REQUIRED.
Please select a baseline cycle from drop-down. You should select the most recent IR cycle for which you have data in ATTAINS. This field is REQUIRED.
The default goal cycle is 2022. You should only change this if advised to do so by EPA. This field is REQUIRED.
This field is optional.
This field is optional.
Please select Yes or No from drop-down.This field is REQUIRED.

Please select a response from drop-down. See Instructions tab for more help. This field is REQUIRED.

http://ofmpub.epa.gov/waters10/attains_state.control?p_state=AZ

ATTAINS cycle will appear at the bottom of this page. If you are defining priorities based on causes and/or uses, please e names in these lists.

AVAILABLE USES FOR AZ*
AGRICULTURAL IRRIGATION
AGRICULTURAL LIVESTOCK WATERING
AQUATIC AND WILDLIFE (COLDWATER FISHERY)
AQUATIC AND WILDLIFE (EFFLUENT DEPENDENT WATER)
AQUATIC AND WILDLIFE (EPHEMERAL)
AQUATIC AND WILDLIFE (WARMWATER FISHERY)
DOMESTIC WATER SOURCE
FISH CONSUMPTION
FULL BODY CONTACT
PARTIAL BODY CONTACT



* USES ARE ONLY ALLOWED FOR IR STATES

EPA Priority ID	EPA HUC	EPA Assessment Unit ID
San Pedro		15050202-003
		15050202-006
		15050202-008
Middle Gila		15070101-008
		15070101-008
Granite		15060202-059A
		15060202-059A
		15060202-767
		15060202-768
		15060202-772
Watson Lake		15060202-1590
Santa Cruz		15050301-008A
		15050301-009
		15050301-500B
LCR		15020001-009
		15020001-010
		15020001-011
		15020001-005
		15020001-018
Queen Creek		15050100-014A
		15050100-014B
		15050100-014C
		15050100-991
		15050100-1843
		15050100-1000

Revised TMDLs (TMDL already completed, will not submit for priorities)

Pinto		15060103-885
		15060103-887
		15060103-018C
		15060103-018A

EPA	EPA	ACWA
Cause Name	**Use Desc**	**Potential to Include Protection**
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	Maybe
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
SELENIUM	AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No
BORON	AGRICULTURAL IRRIGATION	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
NITROGEN, TOTAL	AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
SEDIMENTATION/SILTATION	AQUATIC AND WILDLIFE (COLDWATER FISHERY)	No
SEDIMENTATION/SILTATION	AQUATIC AND WILDLIFE (COLDWATER FISHERY)	No
SEDIMENTATION/SILTATION	AQUATIC AND WILDLIFE (COLDWATER FISHERY)	No
SEDIMENTATION/SILTATION	AQUATIC AND WILDLIFE (COLDWATER FISHERY)	No
SEDIMENTATION/SILTATION	AQUATIC AND WILDLIFE (COLDWATER FISHERY)	No
COPPER	AQUATIC AND WILDLIFE (WARMWATER FISHERY)	Maybe
COPPER	AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No
COPPER	AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No
COPPER	AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No
COPPER	AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No
COPPER	AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No
COPPER	AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No
COPPER	AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No
COPPER	AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No
COPPER	AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No

ACWA	ACWA
Potential to Use Alternative	**Potential Alternative Type**
	Watershed Plan
	Watershed Plan
	Watershed Plan
No	
No	
	Watershed Plan
	Watershed Plan
	Watershed Plan
	Watershed Plan
	Watershed Plan
	Watershed Plan
	Combination of Approaches
	Combination of Approaches
	Combination of Approaches
	Combination of Approaches
	Combination of Approaches
	Combination of Approaches
	Combination of Approaches
	Combination of Approaches
No	
No	
No	
No	
No	
No	
No	
No	
No	
No	

ACWA
Other Description / Comment
Combined TMDL/Watershed Implementation Plan
Combined TMDL/Watershed Implementation Plan
Combined TMDL/Watershed Implementation Plan
Combined TMDL/Watershed Implementation Plan
Combined TMDL/Watershed Implementation Plan
Combined TMDL/Watershed Implementation Plan
Combined TMDL/Watershed Implementation Plan
Combined TMDL/Watershed Implementation Plan
Combined TMDL/Watershed Implementation Plan
Existing TMDL followed up with detailed Watershed Implementation Plan
Existing TMDL followed up with detailed Watershed Implementation Plan
Existing TMDL followed up with detailed Watershed Implementation Plan
Existing TMDL followed up with detailed Watershed Implementation Plan
Existing TMDL followed up with detailed Watershed Implementation Plan
Existing TMDL followed up with detailed Watershed Implementation Plan
Existing TMDL followed up with detailed Watershed Implementation Plan
No loading included in existing TMDL

	15060103-018B
Oak	15060202-018A
	15060202-019
	15060202-018C
	15060202-018B
	15060202-017
	15060202-022
Rainbow	15020005-1170

COPPER	AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
ESCHERICHIA COLI (E. COLI)	FULL BODY CONTACT	No
NITROGEN, TOTAL	AQUATIC AND WILDLIFE (COLDWATER FISHERY)	No

No

Combination of Approaches
Combination of Approaches
Combination of Approaches
Combination of Approaches
Combination of Approaches
Combination of Approaches

Combination of Approaches

Existing TMDL followed up with detailed Watershed Implementation Plan
Existing TMDL followed up with detailed Watershed Implementation Plan
Existing TMDL followed up with detailed Watershed Implementation Plan
Existing TMDL followed up with detailed Watershed Implementation Plan
Existing TMDL followed up with detailed Watershed Implementation Plan
Existing TMDL followed up with detailed Watershed Implementation Plan

Existing TMDL followed up with detailed Watershed Implementation Plan

Below are example entries that a state might use on the WQ-27 Priorities tab. This i

Example #	Priority ID	HUC	Assessment Unit ID	Cause Name
Example A			XX-123	NITROGEN
			XX-123	SEDIMENTS
			XX-234	NITROGEN
			XX-345	NITROGEN
Example B				NITROGEN
				SEDIMENTS
				TEMPERATURE
Example C				NITROGEN
			XX-123	SEDIMENTS
			XX-234	
Example D	1	01234567912		
	1	91389183918		
	2	12345678901		
	3	23456789012		FECAL COLIFORM

s not an exhaustive list; other combin

Use Desc
DOMESTIC WATER SUPPLY
AQUATIC LIFE PRIMARY CONTACT RECREATION

ations are possible.

Notes

In this example, state XX is defining their priorities based on combinations of Assessment Unit ID and Cause Name. The priority universe will be all AU/cause combinations listed in the template. The state did not define Priority IDs. In this case, EPA will create the Priority IDs; for example, EPA may group the AUs with Nitrogen cause under one priority ID, and the AU with Sediments cuase

In this example, the priority universe will be :
- All* 303(d)-listed waters in the baseline cycle that were impaired by Nitrogen, Sediments, or Temperature, **PLUS**
- All* 303(d) listed waters in the baseline cycle that were assessed for use Domestic Water Supply.

In this example, the priority universe will be:
- All* 303(d)-listed waters for the baseline cycle that were impaired by Nitrogen, **PLUS**
- Assessment Unit XX-123 impaired by cause Sediment, **PLUS**
- All impairments in the baseline cycle for Assessment Unit XX-234.

In this example, the priority universe will be:
- All 303(d)-listed waters for the baseline cycle that are in HUCs 01234567912 or 91389183918, **PLUS**
- Only those 303(d) listed waters in HUC 12345678901 that were assessed for use Aquatic Life, **PLUS**
- Only those 303(d) listed waters in HUC 23456789012 that were assessed for use Primary Contact Recreation and impaired by Fecal Coliform.

*If the state also provided WQ-27 GIS data to define priority locations, the universe would be restricted to assessment units in the defined area. Otherwise, EPA will consider the entire state area.

Waterbody Type	Type of Alternative	Potential Decisions	Size Units
River/Stream	Permit	Yes	miles
Wetland	Watershed Plan	No	square miles
Lake/Pond/Impoundment	Direct Implementation	Maybe	acres
Estuary	Combination of Approaches	Not Applicable	
Ocean	Other		

State	Baseline Cycle	Yes/No	
AK	2008	Yes	AZ_USE
AL	2010	No	AZ_CAUSE
AR	2012		
AS	2014	**HUC handling**	
AZ	2016	Not applicable	
CA	2018	Default processing	
CN	2020	Include supporting AUs	
CO			
CT			
DC			
DE			
FL			
GA			
GU			
HI			
IA			
ID			
IL			
IN			
KS			
KY			
LA			
MA			
MD			
ME			
MI			
MN			
MO			
MS			
MT			
NC			
ND			
NE			
NH			
NJ			
NM			
NV			
NY			
OH			
OK			
OR			
PA			
PR			
RI			
SC			
SD			

AK_USE

FRESH WATER / GROWTH AND PROPAGATION OF FISH, SHELLFISH, OTHER AQUATIC LIFE AND WILDLIFE
FRESH WATER / WATER RECREATION / CONTACT RECREATION
FRESH WATER / WATER RECREATION / SECONDARY RECREATION
FRESH WATER / WATER SUPPLY / AGRICULTURE, INCLUDING IRRIGATION AND STOCK WATERING
FRESH WATER / WATER SUPPLY / AQUACULTURE
FRESH WATER / WATER SUPPLY / DRINKING, CULINARY, AND FOOD PROCESSING
FRESH WATER / WATER SUPPLY / INDUSTRIAL
MARINE WATER / GROWTH AND PROPAGATION OF FISH, SHELLFISH, OTHER AQUATIC LIFE AND WILDLIFE
MARINE WATER / HARVESTING FOR CONSUMPTION OF RAW MOLLUSKS OR OTHER RAW AQUATIC LIFE
MARINE WATER / WATER RECREATION / CONTACT RECREATION
MARINE WATER / WATER RECREATION / SECONDARY RECREATION
MARINE WATER / WATER SUPPLY / AQUACULTURE
MARINE WATER / WATER SUPPLY / INDUSTRIAL
MARINE WATER / WATER SUPPLY / SEAFOOD PROCESSING

AL_USE	AR_USE	AS_USE
CONTACT RECREATION	AGRICULTURAL WATER SUPPLY	AGRICULTURE
DRINKING AND FOOD PROCESSING	DOMESTIC WATER SUPPLY	AQUATIC LIFE
FISHING	ECOLOGICALLY SENSITIVE WATERBODY	CULT./CEREMONIAL
INDUSTRIAL AND AGRICULTURE USES	EXTRAORDINARY RESOURCE WATERS	FISH CONSUMPTION
OUTSTANDING ALABAMA WATER	FISH CONSUMPTION	RECREATION
PROPAGATION OF FISH AND WILDLIFE	FISHERIES	SWIMMING
SHELLFISHING	INDUSTRIAL WATER SUPPLY	
	NATURAL AND SCENIC WATERWAYS	
	PRIMARY CONTACT RECREATION	
	SECONDARY CONTACT RECREATION	

AZ_USE

AGRICULTURAL IRRIGATION
AGRICULTURAL LIVESTOCK WATERING
AQUATIC AND WILDLIFE (COLDWATER FISHERY)
AQUATIC AND WILDLIFE (EFFLUENT DEPENDENT WATER)
AQUATIC AND WILDLIFE (EPHEMERAL)
AQUATIC AND WILDLIFE (WARMWATER FISHERY)
DOMESTIC WATER SOURCE
FISH CONSUMPTION
FULL BODY CONTACT
PARTIAL BODY CONTACT

CA_USE	CN_USE
AGRICULTURAL SUPPLY	AESTHETIC, OTHERS
COLD FRESHWATER HABITAT	AQUATIC LIFE
COMMERCIAL AND SPORT FISHING	FISH CONSUMPTION
CULTURAL/TRADITIONAL RIGHTS	POTABLE WATER
ESTUARINE HABITAT	RECREATION
FRESHWATER REPLENISHMENT	
GROUND WATER RECHARGE	
INDUSTRIAL SERVICE SUPPLY	
INLAND SALINE WATER HABITAT	
LIMITED WARM FRESHWATER HABITAT	
MARINE HABITAT	
MIGRATION OF AQUATIC ORGANISMS	
MUNICIPAL AND DOMESTIC SUPPLY	
NON-CONTACT WATER RECREATION	
PRESERVATION OF BIOLOGICAL HABITATS	
RARE, THREATENED, OR ENDANGERED SPECIES	
SHELLFISH HARVESTING	
SPAWNING, REPRODUCTION, AND/OR EARLY DEVELOPMENT	
WARM FRESHWATER HABITAT	
WATER CONTACT RECREATION	
WETLAND HABITAT	
WILDLIFE HABITAT	

CO_USE
AGRICULTURE
AQUATIC LIFE COLD WATER-CLASS 1
AQUATIC LIFE COLD WATER-CLASS 2
AQUATIC LIFE WARM WATER-CLASS 1
AQUATIC LIFE WARM WATER-CLASS 2
DOMESTIC WATER SOURCE
RECREATION PRIMARY CONTACT
RECREATION SECONDARY CONTACT

CT_USE

COMMERCIAL SHELLFISH HARVESTING WHERE AUTHORIZED
EXISTING OR PROPOSED DRINKING WATER
FISH CONSUMPTION
HABITAT FOR FISH, OTHER AQUATIC LIFE AND WILDLIFE
HABITAT FOR MARINE FISH, OTHER AQUATIC LIFE AND WILDLIFE
POTENTIAL DRINKING WATER SUPPLIES
RECREATION
SHELLFISH HARVESTING FOR DIRECT CONSUMPTION WHERE AUTHORIZED

DC_USE

NAVIGATION
PRIMARY CONTACT RECREATION
PROTECTION AND PROPAGATION OF FISH, SHELLFISH AND WILDLIFE
PROTECTION OF HUMAN HEALTH RELATED TO CONSUMPTION OF FISH AND SHELLFISH
SECONDARY CONTACT RECREATION AND AESTHETIC ENJOYMENT

DE_USE

AGRICULTURAL WATER SUPPLY
COLD WATER FISH
FISH, AQUATIC LIFE, AND WILDLIFE
HARVESTABLE SHELLFISH WATERS
INDUSTRIAL WATER SUPPLY
PRIMARY CONTACT RECREATION
PUBLIC WATER SUPPLY
SECONDARY CONTACT RECREATION
WATERS OF EXCEPTIONAL RECREATIONAL OR ECOLOGICAL SIGNIFICANCE

FL_USE	GA_USE
FISH AND WILDLIFE PROPAGATION - FRESHWATER	COASTAL FISHING
FISH AND WILDLIFE PROPAGATION - MARINE	DRINKING WATER SUPPLY
POTABLE WATER SUPPLIES	FISHING
SHELLFISH PROPAGATION	RECREATION
	SCENIC RIVER
	WILD RIVER

GU_USE	HI_USE	IA_USE
AESTHETIC ENJOYMENT	AQUATIC LIFE	AQUATIC LIFE - COLDWATER
AQUATIC LIFE	NONE	AQUATIC LIFE SUPPORT
CONSUMPTION	RECREATION	DRINKING WATER
DRINKING WATER		FISH CONSUMPTION
DRINKING WATER (WITH TREATMENT)		GENERAL USE
LIMITED BODY CONTACT RECREATION		HUMAN HEALTH
WHOLE BODY CONTACT RECREATION		RECREATION - PRIMARY
		SECONDARY CONTACT RECREATION

ID_USE	IL_USE
AESTHETIC	AESTHETIC QUALITY
AGRICULTURAL WATER SUPPLY	AQUATIC LIFE
COLD WATER AQUATIC LIFE	FISH CONSUMPTION
DOMESTIC WATER SUPPLY	INDIGENOUS AQUATIC LIFE
INDUSTRIAL WATER SUPPLY	PRIMARY CONTACT RECREATION
MODIFIED AQUATIC LIFE	PUBLIC AND FOOD PROCESSING WATER SUPPLIES
PRIMARY CONTACT RECREATION	SECONDARY CONTACT
SALMONID SPAWNING	
SEASONAL COLD WATER AQUATIC LIFE	
SECONDARY CONTACT RECREATION	
UNDESIGNATED SURFACE WATERS	
WARM WATER AQUATIC LIFE	
WILDLIFE HABITAT	

IN_USE	KS_USE
FULL BODY CONTACT	AQUATIC LIFE USE
GREAT LAKES AGRICULTURAL USE	DOMESTIC WATER SUPPLY
HUMAN HEALTH AND WILDLIFE	FOOD PROCUREMENT
LIMITED USE	RECREATION
OUTSTANDING STATE RESOURCE WATERS	
PUBLIC WATER SUPPLY	
WARM WATER AQUATIC LIFE	

KY_USE	LA_USE
AQUATIC LIFE SUPPORT	AGRICULTURE
COLD WATER AQUATIC HABITAT	DRINKING WATER SUPPLY
DOMESTIC WATER SUPPLY	FISH AND WILDLIFE PROPAGATION
FISH CONSUMPTION	LIMITED AQUATIC LIFE AND WILDLIFE USE
OUTSTANDING STATE RESOURCE WATER	OUTSTANDING NATURAL RESOURCE WATERS
PRIMARY CONTACT RECREATION WATER	OYSTER PROPAGATION
SECONDARY CONTACT RECREATION WATER	PRIMARY CONTACT RECREATION
WARM WATER AQUATIC HABITAT	SECONDARY CONTACT RECREATION

MA_USE	MD_USE
AESTHETIC	OVERALL USE
FISH CONSUMPTION	
FISH, OTHER AQUATIC LIFE AND WILDLIFE	
PRIMARY CONTACT RECREATION	
PUBLIC WATER SUPPLY	
SECONDARY CONTACT RECREATION	
SHELLFISH HARVESTING	

ME_USE	MI_USE
DRINKING WATER SUPPLY AFTER DISINFECTION	AGRICULTURE
DRINKING WATER SUPPLY AFTER TREATMENT	COLD WATER FISHERY
FISH AND OTHER AQUATIC LIFE	FISH CONSUMPTION
FISH AND OTHER ESTUARINE AND MARINE LIFE	INDUSTRIAL WATER SUPPLY
FISH CONSUMPTION	NAVIGATION
FISHING	OTHER INDIGENOUS AQUATIC LIFE
HYDROELECTRIC POWER GENERATION	PARTIAL BODY CONTACT RECREATION
INDUSTRIAL PROCESS AND COOLING WATER SUPPLY	PUBLIC WATER SUPPLY
NAVIGATION	TOTAL BODY CONTACT RECREATION
PRIMARY CONTACT RECREATION	WARM WATER FISHERY
PROPAGATION AND HARVESTING OF SHELLFISH	
SECONDARY CONTACT RECREATION	

MN_USE

CLASS 1B DRINKING WATER
CLASS 1C DRINKING WATER
CLASS 2A AQUATIC RECREATION
CLASS 2A COLD WATER AQUATIC CONSUMPTION
CLASS 2A COLD WATER AQUATIC LIFE
CLASS 2A DRINKING WATER
CLASS 2B
CLASS 2B AQUATIC RECREATION
CLASS 2B WARM WATER AQUATIC CONSUMPTION
CLASS 2B WARM WATER AQUATIC LIFE
CLASS 2BD AQUATIC RECREATION
CLASS 2BD WARM WATER AQUATIC CONSUMPTION
CLASS 2BD WARM WATER AQUATIC LIFE
CLASS 2C AQUATIC RECREATION
CLASS 2C WARM WATER AQUATIC CONSUMPTION
CLASS 2C WARM WATER AQUATIC LIFE
CLASS 2D AQUATIC RECREATION
CLASS 2D WETLAND AQUATIC CONSUMPTION
CLASS 2D WETLAND AQUATIC LIFE
CLASS 7 LIMITED RESOURCE VALUE WATERS

MO_USE	MS_USE
AQUATIC LIFE	AQUATIC LIFE USE SUPPORT
COLD WATER FISHERY	FISH CONSUMPTION
COOL WATER FISHERY	PRIMARY CONTACT RECREATION
DRINKING WATER SUPPLY	SECONDARY CONTACT RECREATION
GENERAL USE	
INDUSTRIAL PROCESS WATER AND INDUSTRIAL COOLING WATER	
IRRIGATION	
LIVESTOCK AND WILDLIFE WATERING	
SECONDARY CONTACT RECREATION	
WHOLE BODY CONTACT RECREATION - A	
WHOLE BODY CONTACT RECREATION - B	

MT_USE	NC_USE	ND_USE
AGRICULTURAL	AQUATIC LIFE	AGRICULTURAL
AQUATIC LIFE	FISH CONSUMPTION	FISH AND OTHER AQUATIC BIOTA
DRINKING WATER	RECREATION	FISH CONSUMPTION
PRIMARY CONTACT RECREATION	SHELLFISH HARVESTING	INDUSTRIAL
	WATER SUPPLY	MUNICIPAL AND DOMESTIC
		RECREATION

NE_USE	NH_USE
AESTHETICS	AQUATIC LIFE
AGRICULTURE WATER SUPPLY	DRINKING WATER SUPPLY
AQUATIC LIFE	FISH CONSUMPTION
INDUSTRIAL WATER SUPPLY	PRIMARY CONTACT RECREATION
PRIMARY CONTACT RECREATION	SECONDARY CONTACT RECREATION
PUBLIC DRINKING WATER SUPPLY	SHELLFISH CONSUMPTION
	WILDLIFE

NJ_USE	NM_USE
AGRICULTURAL WATER SUPPLY	COLDWATER AQUATIC LIFE
AQUATIC LIFE	COOLWATER AQUATIC LIFE
AQUATIC LIFE - TROUT	DOMESTIC WATER SUPPLY
DRINKING WATER SUPPLY	FISH CULTURE
FISH CONSUMPTION	HIGH QUALITY COLDWATER AQUATIC LIFE
INDUSTRIAL WATER SUPPLY	INDUSTRIAL WATER SUPPLY
PRIMARY CONTACT RECREATION	IRRIGATION
SECONDARY CONTACT RECREATION	IRRIGATION STORAGE
SHELLFISH HARVESTING	LIMITED AQUATIC LIFE
	LIVESTOCK WATERING
	MARGINAL COLDWATER AQUATIC LIFE
	MARGINAL WARMWATER AQUATIC LIFE
	PRIMARY CONTACT
	PUBLIC WATER SUPPLY
	SECONDARY CONTACT
	WARMWATER AQUATIC LIFE
	WILDLIFE HABITAT

NV_USE

AQUATIC LIFE
ENHANCEMENT OF WATER QUALITY
FISH CONSUMPTION
FRESHWATER MARSH
INDUSTRIAL SUPPLY
IRRIGATION
MUNICIPAL OR DOMESTIC SUPPLY
OVERALL USE
PROPAGATION OF WILDLIFE
RECREATION INVOLVING CONTACT WITH THE WATER
RECREATION NOT INVOLVING CONTACT WITH THE WATER
WATERING OF LIVESTOCK
WATERS OF EXTRAORDINARY ECOLOGICAL OR AESTHETIC VALUE

NY_USE

AQUATIC LIFE
ENJOYMENT
FISHING
HABITAT/HYDROLGY
PRIMARY CONTACT RECREATION
SECONDARY CONTACT RECREATION
SHELLFISH
SOURCE OF WATER SUPPLY FOR DRINKING, CULINARY OR FOOD PROCESSING PURPOSE
TEMPORARY PLACEHOLDER

OH_USE

AQUATIC LIFE USE
HUMAN HEALTH USE
PUBLIC DRINKING WATER SUPPLY USE
RECREATIONAL USE

OK_USE

AESTHETIC
AGRICULTURE
EMERGENCY WATER SUPPLY
FISH AND WILDLIFE PROPAGATION-COOL WATER AQUATIC COMMUNITY SUBCATEGORY
FISH AND WILDLIFE PROPAGATION-HABITAT LIMITED AQUATIC COMMUNITY SUBCATEGORY
FISH AND WILDLIFE PROPAGATION-TROUT FISHERY (PUT AND TAKE) SUBCATEGORY
FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY
FISH CONSUMPTION
HQW-HIGH QUALITY WATER
NAVIGATION
ORW-OUTSTANDING RESOURCE
PRIMARY BODY CONTACT RECREATION
PUBLIC AND PRIVATE WATER SUPPLY
SECONDARY BODY CONTACT RECREATION
SWS-SENSITIVE WATER SUPPLY

OR_USE	PA_USE
AESTHETIC QUALITY	AQUATIC LIFE
ANADROMOUS FISH PASSAGE	FISH CONSUMPTION
AQUATIC LIFE	POTABLE WATER SUPPLY
BULL TROUT SPAWNING AND JUVENILE REARING	RECREATIONAL
COLD-WATER AQUATIC LIFE	
COOL-WATER AQUATIC LIFE	
CORE COLD WATER HABITAT	
DRINKING WATER	
ESTUARINE WATER	
FISHING	
HUMAN HEALTH	
LIVESTOCK WATERING	
REDBAND OR LAHONTAN CUTTHROAT TROUT	
RESIDENT FISH AND AQUATIC LIFE	
RESIDENT TROUT SPAWNING	
SALMON AND STEELHEAD MIGRATION CORRIDOR	
SALMON AND STEELHEAD SPAWNING	
SALMON AND TROUT REARING AND MIGRATION	
SALMONID FISH REARING	
SALMONID FISH SPAWNING	
SHELLFISH GROWING	
TEMPORARY PLACEHOLDER	
WATER CONTACT RECREATION	

PR_USE	RI_USE
AQUATIC LIFE	FISH AND WILDLIFE HABITAT
DRINKING WATER SUPPLY	FISH CONSUMPTION
PRIMARY CONTACT RECREATION	PRIMARY CONTACT RECREATION
SECONDARY CONTACT (RECR)	PUBLIC DRINKING WATER SUPPLY
	SECONDARY CONTACT RECREATION
	SHELLFISH CONSUMPTION
	SHELLFISH CONTROLLED RELAY AND DEPURATION

SC_USE
AQUATIC LIFE SUPPORT
FISH CONSUMPTION
PRIMARY CONTACT RECREATION
SHELLFISH HARVESTING

SD_USE

COLDWATER MARGINAL FISH LIFE PROPAGATION WATERS
COLDWATER PERMANENT FISH LIFE PROPAGATION WATERS
COMMERCE AND INDUSTRY WATERS
DOMESTIC WATER SUPPLY WATERS
FISH AND WILDLIFE PROPAGATION, RECREATION, AND STOCK WATERING WATERS
IMMERSION RECREATION WATERS
IRRIGATION WATERS
LIMITED CONTACT RECREATION WATERS
WARMWATER MARGINAL FISH LIFE PROPAGATION WATERS
WARMWATER PERMANENT FISH LIFE PROPAGATION WATERS
WARMWATER SEMIPERMANENT FISH LIFE PROPAGATION WATERS

TN_USE	TT_USE	TX_USE
DOMESTIC WATER SUPPLY		AQUATIC LIFE USE
FISH AND AQUATIC LIFE		DOMESTIC WATER SUPPLY - PUBLIC WATER SUPPLY
INDUSTRIAL WATER SUPPLY		FISH CONSUMPTION USE
IRRIGATION		GENERAL USE
LIVESTOCK WATERING AND WILDLIFE		OYSTER AQUATIC LIFE
NATURALLY REPRODUCING TROUT STREAM		PRIMARY RECREATION/SWIMMING
NAVIGATION		RECREATIONAL BEACHES
RECREATION		

UT_USE
AGRICULTURAL
COLD WATER AQUATIC LIFE
DOMESTIC WATER SUPPLY
NON-GAME FISH AND OTHER AQUATIC LIFE
PRIMARY RECREATION
SECONDARY RECREATION
WARM WATER AQUATIC LIFE
WILDLIFE HABITAT

VA_USE
AQUATIC LIFE
DEEP-CHANNEL SEASONAL REFUGE
DEEP-WATER AQUATIC LIFE
FISH CONSUMPTION
MIGRATORY FISH SPAWNING AND NURSERY
OPEN-WATER AQUATIC LIFE
PUBLIC WATER SUPPLY
RECREATION
SHALLOW-WATER SUBMERGED AQUATIC VEGETATION
SHELLFISHING
WILDLIFE

VI_USE	VT_USE
AQUATIC LIFE USE	AESTHETIC
PRIMARY CONTACT RECREATION	AQUATIC BIOTA, WILDLIFE, AND AQUATIC HABITAT
	BOATING, FISHING, AND OTHER RECREATIONAL USES
	FISH CONSUMPTION
	PUBLIC WATER SUPPLY
	SWIMMING AND OTHER PRIMARY CONTACT RECREATION

WA_USE	WI_USE
DESIGNATED USE	FISH AND AQUATIC LIFE
	FISH CONSUMPTION
	PUBLIC WATER SUPPLY
	RECREATION USE

WV_USE
AGRICULTURE AND WILDLIFE
PUBLIC WATER SUPPLY
TROUT WATERS
WARM WATER FISHERY
WATER CONTACT RECREATION
WATER SUPPLY INDUSTRIAL, WATER TRANSPORT, COOLING AND POWER

WY_USE
AGRICULTURE
AQUATIC LIFE OTHER THAN FISH
COLD WATER FISHERY
DRINKING WATER
FISH CONSUMPTION
INDUSTRY
NON-GAME FISH
RECREATION
SCENIC VALUE
WARM WATER FISHERY
WILDLIFE

AK_CAUSE	AL_CAUSE
ALUMINUM	ALUMINUM
ANTIMONY	AMMONIA, TOTAL
ARSENIC	ARSENIC
BOTTOM DEPOSITS	CARBONACEOUS BOD
CADMIUM	CHLORIDE
COPPER	CHROMIUM, TRIVALENT
DEBRIS/FLOATABLES/TRASH	COPPER
DISSOLVED OXYGEN SATURATION	CYANIDE
FECAL COLIFORM	DDT
IRON	DIELDRIN
LEAD	ENTEROCOCCUS BACTERIA
MANGANESE	ESCHERICHIA COLI (E. COLI)
MERCURY	FECAL COLIFORM
NICKEL	IRON
PETROLEUM HYDROCARBONS	LEAD
RESIDUES	MERCURY
SEDIMENTATION/SILTATION	NITROGENOUS BOD
SULFATES	PH
TURBIDITY	PHOSPHORUS, TOTAL
ZINC	POLYCHLORINATED BIPHENYLS (PCBS)
	SEDIMENTATION/SILTATION
	THALLIUM
	TOTAL DISSOLVED SOLIDS (TDS)
	TURBIDITY
	WHOLE EFFLUENT TOXICITY (WET)
	ZINC

AR_CAUSE	AS_CAUSE	AZ_CAUSE
ALUMINUM	ARSENIC	AMMONIA, UN-IONIZED
BERYLLIUM	DISSOLVED OXYGEN	AQUATIC PLANTS - NATIVE
CADMIUM	ENTEROCOCCUS BACTERIA	ARSENIC
CHLORIDE	NITROGEN, TOTAL	BERYLLIUM
COPPER	PHOSPHORUS, TOTAL	BORON
DISSOLVED OXYGEN	TURBIDITY	CADMIUM
ESCHERICHIA COLI (E. COLI)	UNDETERMINED NPS STRESSOR	CHLORDANE
FECAL COLIFORM		CHLORINE
LEAD		COPPER
NITRATES		DDT
PH		DISSOLVED OXYGEN
PHOSPHORUS, TOTAL		ESCHERICHIA COLI (E. COLI)
SEDIMENTATION/SILTATION		LEAD
SULFATES		MERCURY IN FISH TISSUE
TEMPERATURE		NITROGEN, TOTAL
TOTAL DISSOLVED SOLIDS (TDS)		PH
TURBIDITY		PHOSPHORUS, ELEMENTAL
ZINC		PHOSPHORUS, TOTAL
		SEDIMENTATION/SILTATION
		SELENIUM
		TOXAPHENE
		ZINC

CA_CAUSE

2-METHYLNAPHTHALENE
ACID MINE DRAINAGE
ALDICARB
ALGAE
ALGAL TOXINS
ALPHA-BHC
ALUMINUM
AMMONIA
AMMONIA NITROGEN
AMMONIA, UN-IONIZED
ARSENIC
BACTERIA
BEACH CLOSURES
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BENZO[A]ANTHRACENE
BENZO[A]PYRENE
BENZO[B]FLUORANTHENE
BENZ[A]ANTHRACENE
BIFENTHRIN
BIOCHEMICAL OXYGEN DEMAND (BOD)
BIS(2-ETHYLHEXYL) PHTHALATE
BORON
CADMIUM
CARBOFURAN
CHEMA
CHEMICAL OXYGEN DEMAND (COD)
CHLORDANE
CHLORDANE IN FISH TISSUE
CHLORIDE
CHLOROPHYLL-A
CHLORPYRIFOS
CHROMIUM, TOTAL
CHRYSENE
COLIFORMS
COLOR
CONDUCTIVITY
CONTAMINATED SEDIMENTS (CADMIUM)
CONTAMINATED SEDIMENTS (CHLORDANE)
CONTAMINATED SEDIMENTS (COPPER)
CONTAMINATED SEDIMENTS (LEAD)
CONTAMINATED SEDIMENTS (PAHS)
CONTAMINATED SEDIMENTS (PCBS)
CONTAMINATED SEDIMENTS (SILVER)
CONTAMINATED SEDIMENTS (ZINC)
COPPER
CYANIDE

CN_CAUSE
DISSOLVED OXYGEN SATURATION
ENTEROCOCCUS BACTERIA
MERCURY IN FISH TISSUE
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
PHOSPHATE
UNLISTED BUT IMPAIRED

CO_CAUSE

ALUMINUM
AMMONIA, UN-IONIZED
ARSENIC
BOD, SEDIMENT LOAD (SEDIMENT OXYGEN DEMAND)
CADMIUM
CAUSE UNKNOWN
CHLOROPHYLL-A
COPPER
DISSOLVED OXYGEN
DISSOLVED OXYGEN SATURATION
ESCHERICHIA COLI (E. COLI)
IRON
LEAD
MANGANESE
MERCURY
MERCURY IN FISH TISSUE
PH
PHOSPHORUS, TOTAL
SEDIMENTATION/SILTATION
SELENIUM
SULFATES
TEMPERATURE
TETRACHLOROETHYLENE
URANIUM
ZINC

CT_CAUSE

AMMONIA, UN-IONIZED
CADMIUM
CAUSE UNKNOWN
CHLORDANE
CHLOROPHYLL-A
COPPER
DEBRIS/FLOATABLES/TRASH
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
DISSOLVED OXYGEN SATURATION
ENTEROCOCCUS BACTERIA
ESCHERICHIA COLI (E. COLI)
ESTUARINE BIOASSESSMENTS
EXCESS ALGAL GROWTH
FECAL COLIFORM
GOLD
IRON
LEAD
MERCURY
NITROGEN, TOTAL
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
OIL AND GREASE
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
SEDIMENTATION/SILTATION
SILVER
SODIUM
TASTE AND ODOR
TOTAL SUSPENDED SOLIDS (TSS)
TURBIDITY
WHOLE EFFLUENT TOXICITY (WET)
ZINC

DC_CAUSE

ALTERATION IN STREAM-SIDE OR LITTORAL VEGETATIVE COVERS
ALTERATIONS IN WETLAND HABITATS
ARSENIC
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BIOCHEMICAL OXYGEN DEMAND (BOD)
CHLORDANE
CHLORINE, RESIDUAL (CHLORINE DEMAND)
COMBINATION BENTHIC/FISHES BIOASSESSMENTS
COMBINED BIOTA/HABITAT BIOASSESSMENTS
COPPER
DDD
DDE
DDT
DEBRIS/FLOATABLES/TRASH
DIELDRIN
DISSOLVED OXYGEN SATURATION
FECAL COLIFORM
FISH BIOASSESSMENTS
FLOW ALTERATION(S)
HABITAT ASSESSMENT (STREAMS)
HEPTACHLOR EPOXIDE
LEAD
MERCURY
NITROGEN, TOTAL
OIL AND GREASE
PARTICLE DISTRIBUTION (EMBEDDEDNESS)
PH
PHOSPHORUS, TOTAL
PHYSICAL SUBSTRATE HABITAT ALTERATIONS
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
TOTAL SUSPENDED SOLIDS (TSS)
ZINC

DE_CAUSE

CAUSE UNKNOWN
CHLORDANE
DDT
DDT IN TISSUE
DIELDRIN
DIOXIN
ENTEROCOCCUS BACTERIA
HABITAT ASSESSMENT
MERCURY
NITRATE/NITRITE
NITROGEN, TOTAL
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
SUSPENDED SOLIDS
TOTAL KJEHLDAHL NITROGEN (TKN)

FL_CAUSE	GA_CAUSE
ALKALINITY, CARBONATE AS CACO3	BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
AMMONIA, UN-IONIZED	CADMIUM
ARSENIC	CHLOROPHYLL-A
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS	COPPER
BIOCHEMICAL OXYGEN DEMAND (BOD)	DISSOLVED OXYGEN
CHLORIDE	ENTEROCOCCUS BACTERIA
CHLORINE	FECAL COLIFORM
CHLOROPHYLL-A	FISH BIOASSESSMENTS
COPPER	LEAD
DIOXIN (INCLUDING 2,3,7,8-TCDD)	MERCURY IN FISH TISSUE
DISSOLVED OXYGEN	OTHER CAUSE
EXCESS ALGAL GROWTH	PCB(S) IN FISH TISSUE
FECAL COLIFORM	PH
IRON	PHOSPHORUS, TOTAL
LEAD	SELENIUM
MACROPHYTES	TEMPERATURE, WATER
MERCURY IN FISH TISSUE	TOXAPHENE
NICKEL	ZINC
OTHER CAUSE	
PH	
PHOSPHORUS, TOTAL	
SILVER	
SPECIFIC CONDUCTIVITY	
THALLIUM	
TOTAL COLIFORM	
TOTAL DISSOLVED SOLIDS (TDS)	
TOTAL SUSPENDED SOLIDS (TSS)	
TROPHIC STATE INDEX (TSI)	
TURBIDITY	

GU_CAUSE	HI_CAUSE
ALUMINUM	AMMONIA, TOTAL
AMMONIA, UN-IONIZED	CHLORDANE
ANTIMONY	CHLOROPHYLL-A
ARSENIC	DIELDRIN
CHLORDANE	ENTEROCOCCUS BACTERIA
CHLORDANE IN FISH TISSUE	FECAL COLIFORM
CHROMIUM, TOTAL	LEAD
COPPER	METALS (OTHER THAN MERCURY)
DIELDRIN	NITRATE/NITRITE
DISSOLVED OXYGEN	NITRATE/NITRITE (NITRITE + NITRATE AS N)
ENTEROCOCCUS BACTERIA	NITROGEN, TOTAL
ESCHERICHIA COLI (E. COLI)	NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
IRON	ORGANOCHLORINE PESTICIDES
MANGANESE	OTHER CAUSE
NICKEL	PCB(S) IN FISH TISSUE
NITRATES	PHOSPHATE
PCB(S) IN FISH TISSUE	PHOSPHORUS, TOTAL
SALINITY	TOTAL SUSPENDED SOLIDS (TSS)
TEMPERATURE	TRASH
TETRACHLOROETHYLENE	TURBIDITY
TOTAL COLIFORM	
TOTAL DISSOLVED SOLIDS (TDS)	
TOTAL SUSPENDED SOLIDS (TSS)	
TOXIC SEAFOOD ADVISORY (SEAWEED)	
TRICHLOROETHYLENE (TCE)	
TURBIDITY	
UNLISTED BUT IMPAIRED	
ZINC	

IA_CAUSE

ALGAL GROWTH/CHLOROPHYLL A
ALUMINUM
AMMONIA
ARSENIC
CADMIUM
CAUSE UNKNOWN (BIOLOGICAL): MUSSELS
CAUSE UNKNOWN - BIOLOGICAL INTEGRITY
CHLORIDE
CHROMIUM
FISH CONSUMPTION ADVISORY - MERCURY
FISH CONSUMPTION ADVISORY - PCBS
FISH KILL CAUSED BY AMMONIA
FISH KILL CAUSED BY ANIMAL WASTE
FISH KILL CAUSED BY CHLORINE
FISH KILL CAUSED BY FERTILIZER SPILL
FISH KILL CAUSED BY FUEL SPILL
FISH KILL CAUSED BY ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN
FISH KILL CAUSED BY PESTICIDES
FISH KILL CAUSED BY WASTEWATER
FISH KILL DUE TO NATURAL CAUSES
FISH KILL DUE TO UNKNOWN TOXICITY
INDICATOR BACTERIA
NITRATE
ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN
PH
PRIORITY ORGANICS COMPOUNDS
SANITARY WASTE
TURBIDITY
WASTEWATER

ID_CAUSE
AMMONIA, UN-IONIZED
ANTIMONY
AQUATIC PLANT BIOASSESSMENTS
ARSENIC
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CADMIUM
CAUSE UNKNOWN
CHLORPYRIFOS
COMBINED BIOTA/HABITAT BIOASSESSMENTS
COPPER
DISSOLVED GAS SUPERSATURATION
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
FISH BIOASSESSMENTS
HABITAT ASSESSMENT (STREAMS)
LEAD
MALATHION
MERCURY
METHYL PARATHION
NITROGEN, TOTAL
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
OIL AND GREASE
PARTICLE DISTRIBUTION (EMBEDDEDNESS)
PH
PHOSPHORUS, TOTAL
SEDIMENTATION/SILTATION
SELENIUM
TEMPERATURE, WATER
TOTAL SUSPENDED SOLIDS (TSS)
ZINC

IL_CAUSE
ALDRIN
ALPHA-BHC
AMMONIA, TOTAL
AMMONIA, UN-IONIZED
ARSENIC
ATRAZINE
BARIUM
BORON
CADMIUM
CAUSE UNKNOWN
CHLORDANE
CHLORIDES
CHLORINE
CHROMIUM, TOTAL
COPPER
DDT
DIELDRIN
DIOXIN
DISSOLVED OXYGEN
ENDRIN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
FLUORIDE
HEPTACHLOR
HEXACHLOROBENZENE
IRON
LEAD
LINDANE
MANGANESE
MERCURY
METHOXYCHLOR
NICKEL
NITRATES
NITROGEN
NITROGEN, TOTAL
OIL AND GREASE
PH
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
SEDIMENTATION/SILTATION
SILVER
SULFATES
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL SUSPENDED SOLIDS (TSS)
ZINC

IN_CAUSE	KS_CAUSE
ALGAE	AMMONIA
AMMONIA	ARSENIC
CHLORIDES	ATRAZINE
COPPER	BIOLOGY
CYANIDE	BORON
DIOXINS	CADMIUM
DISSOLVED OXYGEN	CHLORIDE
ESCHERICHIA COLI (E. COLI)	COPPER
FISH CONSUMPTION ADVISORY - MERCURY	DIAZINON
FISH CONSUMPTION ADVISORY - PCBS	DISSOLVED OXYGEN
IMPAIRED BIOTIC COMMUNITIES	ESCHERICHIA COLI (E. COLI)
LEAD	EUTROPHICATION
MERCURY IN FISH TISSUE	FLUORIDE
NICKEL	GROSS ALPHA
NUTRIENTS	LEAD
OIL AND GREASE	MERCURY IN FISH TISSUE
PCB(S) IN FISH TISSUE	NITRATE
PESTICIDES	PCB(S) IN FISH TISSUE
PH	PERCHLORATE
PHOSPHORUS	PH
SILTATION	PHOSPHORUS, TOTAL
SULFATES	SELENIUM
TASTE AND ODOR	SILTATION
TOTAL DISSOLVED SOLIDS (TDS)	SULFATE
ZINC	SUSPENDED SOLIDS
	TEMPERATURE
	ZINC

KY_CAUSE
AMMONIA, TOTAL
AMMONIA, UN-IONIZED
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BETA PARTICLES AND PHOTON EMITTERS
CADMIUM
CARBONACEOUS BOD
CAUSE UNKNOWN
CHLORIDE
CHLORINE
CHLORINE, RESIDUAL (CHLORINE DEMAND)
CHROMIUM, TOTAL
COPPER
DIOXIN
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
GROSS ALPHA
HABITAT ASSESSMENT (STREAMS)
IRON
LEAD
MANGANESE
MERCURY
MERCURY IN FISH TISSUE
MERCURY IN WATER COLUMN
METHYL MERCURY
METHYLMERCURY
NICKEL
NITRATE/NITRITE (NITRITE + NITRATE AS N)
NITRATES
NITROGEN, TOTAL
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
OIL AND GREASE
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
OTHER CAUSE
PARTICLE DISTRIBUTION (EMBEDDEDNESS)
PCB(S) IN FISH TISSUE
PH
PHOSPHORUS, TOTAL
PHYSICAL SUBSTRATE HABITAT ALTERATIONS
POLYCHLORINATED BIPHENYLS (PCBS)
SALINITY
SEDIMENTATION/SILTATION
SELENIUM
SPECIFIC CONDUCTIVITY
SULFATES
TEMPERATURE, WATER

LA_CAUSE
CHLORIDE
COLOR
COPPER
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
LEAD
MERCURY IN FISH TISSUE
PH, HIGH
PH, LOW
PHOSPHORUS, TOTAL
SULFATES
TEMPERATURE, WATER
TOTAL DISSOLVED SOLIDS (TDS)
TURBIDITY

MA_CAUSE

2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (ONLY)
ABNORMAL FISH DEFORMITIES, EROSIONS, LESIONS, TUMORS (DELTS)
ABNORMAL FISH HISTOLOGY
ALUMINUM
AMBIENT BIOASSAYS - CHRONIC AQUATIC TOXICITY
AMMONIA, UN-IONIZED
AQUATIC MACROINVERTEBRATE BIOASSESSMENTS
AQUATIC PLANTS (MACROPHYTES)
ARSENIC
BOTTOM DEPOSITS
CADMIUM
CHLORDANE
CHLORIDE
CHLOROPHYLL-A
CHROMIUM, TOTAL
COLOR
COMBINED BIOTA/HABITAT BIOASSESSMENTS
COPPER
DDT
DEHP (DI-SEC-OCTYL PHTHALATE)
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
DISSOLVED OXYGEN SATURATION
ENTEROCOCCUS BACTERIA
ESCHERICHIA COLI (E. COLI)
ESTUARINE BIOASSESSMENTS
EXCESS ALGAL GROWTH
FECAL COLIFORM
FISH BIOASSESSMENTS
FOAM/FLOCS/SCUM/OIL SLICKS
LACK OF A COLDWATER ASSEMBLAGE
LEAD
MERCURY IN FISH TISSUE
MERCURY IN WATER COLUMN
NITROGEN, TOTAL
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
OIL AND GREASE
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
OTHER CAUSE
PCB(S) IN FISH TISSUE
PENTACHLOROPHENOL (PCP)
PETROLEUM HYDROCARBONS
PH, HIGH
PH, LOW
PHOSPHORUS, TOTAL
PHYSICAL SUBSTRATE HABITAT ALTERATIONS

MD_CAUSE	ME_CAUSE
ALUMINUM	1,1-DICHLOROETHANE
AMMONIA	1,2-DICHLOROETHANE
CAUSE UNKNOWN	AQUATIC LIFE
CHLORIDES	BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CHROMIUM, TOTAL	CAUSE UNKNOWN
COPPER	CHLOROPHYLL-A
DEBRIS/FLOATABLES/TRASH	COPPER
ENTEROCOCCUS BACTERIA	DDT
FECAL COLIFORM	DIOXIN (INCLUDING 2,3,7,8-TCDD)
HEPTACHLOR EPOXIDE	DISSOLVED OXYGEN
IRON	ESCHERICHIA COLI (E. COLI)
LEAD IN SEDIMENT	HABITAT ASSESSMENT (STREAMS)
MANGANESE	IRON
MERCURY IN FISH TISSUE	NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
NITROGEN, TOTAL	PERIPHYTON (AUFWUCHS) INDICATOR BIOASSESSMENTS
PCB(S) IN FISH TISSUE	PH
PCBS IN SEDIMENTS AND FISH TISSUE	PHOSPHORUS, TOTAL
PH, HIGH	POLYCHLORINATED BIPHENYLS (PCBS)
PH, LOW	SECCHI DISK TRANSPARENCY
PHOSPHORUS, TOTAL	TOXICITY
POLYCHLORINATED BIPHENYLS (PCBS)	TOXICS
SEDIMENTATION/SILTATION	UNDETERMINED NPS STRESSOR
SULFATES	
TOTAL SUSPENDED SOLIDS (TSS)	
TOXICS	
ZINC IN SEDIMENT	

MI_CAUSE

AMMONIA, TOTAL
AMMONIA, UN-IONIZED
BACTERIAL SLIMES
CAUSE UNKNOWN
CHLORDANE
CHROMIUM, TOTAL
COPPER
DDT
DIOXIN
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
EXCESS ALGAL GROWTH
FISH KILL(S)
FLOW ALTERATION(S)
LEAD
MERCURY
MERCURY IN FISH TISSUE
NOXIOUS AQUATIC PLANTS NATIVE
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
OIL AND GREASE
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
OTHER ANTHROPOGENIC SUBSTRATE ALTERATIONS
OTHER HABITAT ALTERATION(S)
PCB(S) IN FISH TISSUE
PETROLEUM HYDROCARBONS
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
SEDIMENTATION/SILTATION
SUSPENDED SOLIDS
TEMPERATURE
TOTAL DISSOLVED SOLIDS (TDS)

MN_CAUSE

ACETOCHLOR
AMMONIA
AQUATIC MACROINVERTEBRATE BIOASSESSMENTS
AQUATIC PLANT BIOASSESSMENTS
CHLORIDE
DDT
DIELDRIN
DIOXIN
DISSOLVED OXYGEN
EUTROPHICATION
FECAL COLIFORM
FISH BIOASSESSMENTS
LACK OF A COLDWATER ASSEMBLAGE
MERCURY
MERCURY IN FISH TISSUE
NUTRIENTS - ALGAE
PCB(S) IN FISH TISSUE
PERFLUOROOCTANE SULFONATE (PFOS) IN FISH TISSUE
PH
POLYCHLORINATED BIPHENYLS (PCBS)
TEMPERATURE
TOXAPHENE
TURBIDITY

MO_CAUSE
AMMONIA
AMMONIA, UN-IONIZED
AQUATIC MACROINVERTEBRATE BIOASSESSMENTS
ATRAZINE
CADMIUM
CHLORIDE
CHLOROPHYLL-A
CONTAMINATED SEDIMENTS (ARSENIC)
CONTAMINATED SEDIMENTS (BENZO[A]ANTHRACENE)
CONTAMINATED SEDIMENTS (BENZO[A]PYRENE)
CONTAMINATED SEDIMENTS (CADMIUM)
CONTAMINATED SEDIMENTS (CHRYSENE)
CONTAMINATED SEDIMENTS (LEAD)
CONTAMINATED SEDIMENTS (NICKEL)
CONTAMINATED SEDIMENTS (PHENANTHRENE)
CONTAMINATED SEDIMENTS (PYRENE)
CONTAMINATED SEDIMENTS (ZINC)
COPPER
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
FISH BIOASSESSMENTS
LEAD
MERCURY IN FISH TISSUE
NITROGEN, TOTAL
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
PH
PHOSPHORUS, TOTAL
SEDIMENTATION/SILTATION
SULFATE + CHLORIDE
TEMPERATURE
UNKNOWN TOXICITY
ZINC

MS_CAUSE
BIOLOGICAL IMPAIRMENT
CADMIUM
CONDUCTIVITY
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
LEAD
NITROGEN
NUTRIENTS
ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN
PH
PHOSPHORUS

MT_CAUSE

ALUMINUM
AMMONIA, TOTAL
AMMONIA, UN-IONIZED
ANTIMONY
ARSENIC
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BIOCHEMICAL OXYGEN DEMAND (BOD)
BOTTOM DEPOSITS
CADMIUM
CHLORIDE
CHROMIUM, TOTAL
COMBINED BIOTA/HABITAT BIOASSESSMENTS
COPPER
CYANIDE
DDE
DDT
DISSOLVED GAS SUPERSATURATION
DISSOLVED OXYGEN
DISSOLVED OXYGEN SATURATION
ENDOSULFAN SULFATE
ENDRIN ALDEHYDE
ESCHERICHIA COLI (E. COLI)
FISH PASSAGE BARRIER
IRON
LEAD
MANGANESE
MERCURY
NICKEL
NITRATE/NITRITE (NITRITE + NITRATE AS N)
NITRATES
NITROGEN, NITRATE
NITROGEN, TOTAL
NON-NATIVE FISH/SHELLFISH/ZOOPLANKTON
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
OIL AND GREASE
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
OTHER CAUSE
PCB IN WATER COLUMN
PH
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
SALINITY
SEDIMENTATION/SILTATION
SELENIUM
SILVER

NC_CAUSE

ARSENIC
CADMIUM
CHLORIDE
CHLOROPHYLL-A
COPPER
DIOXIN
DISSOLVED OXYGEN
ECOLOGICAL/BIOLOGICAL INTEGRITY BENTHOS
ECOLOGICAL/BIOLOGICAL INTEGRITY FISHCOM
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
HIGH PH
LEAD
LOW PH
MERCURY IN WATER COLUMN
NICKEL
NITRATE/NITRITE (NITRITE + NITRATE AS N)
POLYCHLORINATED BIPHENYLS (PCBS)
RECREATION ADVISORY POSTINGS
SHELLFISH GROWING AREA-CONDITIONALLY APPROVED CLOSED
SHELLFISH GROWING AREA-CONDITIONALLY APPROVED OPEN
SHELLFISH GROWING AREA-PROHIBITED
TEMPERATURE
TURBIDITY
ZINC

ND_CAUSE
ARSENIC
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CADMIUM
CHLORIDE
COMBINATION BENTHIC/FISHES BIOASSESSMENTS
COPPER
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
FISH BIOASSESSMENTS
LEAD
METHYL MERCURY
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
SEDIMENTATION/SILTATION
SELENIUM
TEMPERATURE, WATER
TOTAL DISSOLVED SOLIDS (TDS)

NE_CAUSE
ALGAL BLOOMS
ALGAL TOXINS
AMMONIA
ATRAZINE
BIOLOGICAL INTEGRITY
CHLORIDE
CHLOROPHYLL-A
CONDUCTIVITY
COPPER
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FISH CONSUMPTION ADVISORY
NITROGEN, TOTAL
PH
PHOSPHORUS, TOTAL
SEDIMENT
SELENIUM
TEMPERATURE

NH_CAUSE
2-METHYLNAPHTHALENE
ACENAPHTHENE
ACENAPHTHYLENE
ALUMINUM
AMMONIA, UN-IONIZED
ANTHRACENE
ARSENIC
BARIUM
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BENZO[A]ANTHRACENE
BENZO[A]PYRENE
BENZO[B]FLUORANTHENE
BENZO[G,H,I]PERYLENE
BENZO[K]FLUORANTHENE
BIPHENYL
CADMIUM
CHLORIDE
CHLOROPHYLL-A
CHROMIUM, TOTAL
CHRYSENE
COPPER
CREOSOTE
CYANOBACTERIA HEPATOTOXIC MICROCYSTINS
DDD
DDE
DDT
DIBENZ[A,H]ANTHRACENE
DIELDRIN
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
DISSOLVED OXYGEN SATURATION
ENDRIN
ENTEROCOCCUS BACTERIA
ESCHERICHIA COLI (E. COLI)
ESTUARINE BIOASSESSMENTS
EXCESS ALGAL GROWTH
FECAL COLIFORM
FISH BIOASSESSMENTS
FLUORANTHENE
FLUORENE
FOAM/FLOCS/SCUM/OIL SLICKS
HEPTACHLOR
INDENO[1,2,3-CD]PYRENE
IRON
LEAD
LIGHT ATTENUATION COEFFICIENT

NJ_CAUSE
AMMONIA, UN-IONIZED
ARSENIC
BENZENE
BENZO[A]PYRENE
CADMIUM
CAUSE UNKNOWN
CHLORDANE
CHLORDANE IN FISH TISSUE
CHLORIDE
CHROMIUM, HEXAVALENT
CHROMIUM, TOTAL
COPPER
CYANIDE
DDD
DDE
DDT
DIELDRIN
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
HEPTACHLOR EPOXIDE
HEXACHLOROBENZENE
LEAD
MERCURY IN FISH TISSUE
MERCURY IN WATER COLUMN
NICKEL
NITRATES
PCB(S) IN FISH TISSUE
PH
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
SILVER
SULFATES
TEMPERATURE, WATER
TETRACHLOROETHYLENE
THALLIUM
TOTAL COLIFORM
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL SUSPENDED SOLIDS (TSS)
TRICHLOROETHYLENE (TCE)
TURBIDITY
ZINC

NM_CAUSE
ALUMINUM
ALUMINUM, ACUTE
ALUMINUM, CHRONIC
AMBIENT BIOASSAYS - ACUTE AQUATIC TOXICITY
AMMONIA, TOTAL
ARSENIC
BENTHIC MACROINVERTEBRATES
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BORON
CADMIUM
COPPER, ACUTE
COPPER, CHRONIC
DDT IN FISH TISSUE
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
GROSS ALPHA
LEAD
MERCURY
MERCURY IN FISH TISSUE
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
PCB(S) IN FISH TISSUE
PH
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
RADIUM 226
RADIUM 228
SEDIMENTATION/SILTATION
SELENIUM, TOTAL RECOVERABLE
SPECIFIC CONDUCTIVITY
TEMPERATURE
TEMPERATURE, WATER
THALLIUM
TURBIDITY
URANIUM
ZINC, ACUTE

NV_CAUSE
ARSENIC
BORON
CADMIUM
COPPER
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
FLUORIDE
IRON
MANGANESE
MERCURY IN FISH TISSUE
MERCURY IN SEDIMENT
MERCURY IN WATER COLUMN
NICKEL
NITROGEN, NITRATE
NITROGEN, TOTAL
ORTHOPHOSPHORUS
PH
PHOSPHORUS, TOTAL
SELENIUM
SULFATES
TEMPERATURE, WATER
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL SUSPENDED SOLIDS (TSS)
TURBIDITY
ZINC

NY_CAUSE

AESTHETICS
ALDICARB
ALGAL GROWTH
ALUMINUM
AMMONIA
ARSENIC
CADMIUM
CAUSE UNKNOWN
CHLORDANE
CHLORDANE/DDT
CHLORINE
CIS-1,2-DICHLOROETHYLENE
CLARITY
COLOR
COPPER
CYANIDE
DDD
DDT
DEBRIS
DIELDRIN
DIOXIN
FISH PASSAGE BARRIER
FLOATABLES
FLOW ALTERATION(S)
HABITAT
LEAD
MERCURY
METALS (OTHER THAN MERCURY)
METHYL TERTIARY-BUTYL ETHER (MTBE)
MIREX
NICKEL
NITRITE
NITROGEN
NUTRIENTS
NUTRIENTS/NUTRIENT RECYCLING
ODORS
OIL
OIL AND GREASE
ORGANOCHLORINE PESTICIDES
OTHER CAUSE
OTHER POLLUTANTS/ENCROACHMENT
OTHER POLLUTANTS/LOSS OF COVER, PREDATIO
OXYGEN DEMAND
PAPER SLUDGE
PATHOGENS
PESTICIDES

OH_CAUSE

ALTERATION IN STREAM-SIDE OR LITTORAL VEGETATIVE COVERS
ALUMINUM
AMMONIA
AMMONIA, TOTAL
AMMONIA, UN-IONIZED
ARSENIC
ATRAZINE
BARIUM
CAUSE UNKNOWN
CHEMICAL OXYGEN DEMAND (COD)
CHLORINE
COPPER
DDT IN TISSUE
DISSOLVED OXYGEN
EXCESS ALGAL GROWTH
EXOTIC SPECIES
FISH BARRIERS
FISH CONSUMPTION ADVISORY - HEXACHLOROBENZE
FISH CONSUMPTION ADVISORY - MIREX
FISH KILL(S)
FLOW ALTERATION(S)
HABITAT ALTERATIONS
IRON
MERCURY IN FISH TISSUE
METALS (OTHER THAN MERCURY)
NATURAL LIMITS
NATURAL LIMITS (DROUGHT)
NATURAL LIMITS (WETLANDS)
NICKEL
NITRATE
NITRATES
NITRITE/NITRATE
NUTRIENTS
OIL AND GREASE
ORGANIC ENRICHMENT
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN
OTHER INORGANICS
PATHOGENS
PCB(S) IN FISH TISSUE
PESTICIDES
PH
PHOSPHORUS, TOTAL
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
PRIORITY ORGANICS COMPOUNDS
SALINITY/TOTAL DISSOLVED SOLIDS/CHLORIDES

OK_CAUSE

AMMONIA, UN-IONIZED
ARSENIC
BARIUM
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CADMIUM
CHLORIDE
CHLOROPHYLL-A
CHLORPYRIFOS
CHROMIUM, TOTAL
COLOR
COPPER
DDT
DIAZINON
DIELDRIN
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
ESCHERICHIA COLI (E. COLI)
FISH BIOASSESSMENTS
LEAD
MERCURY
NITRATES
OIL AND GREASE
PH
PHOSPHORUS, TOTAL
SEDIMENTATION/SILTATION
SELENIUM
SILVER
SULFATES
THALLIUM
TOTAL DISSOLVED SOLIDS (TDS)
TOXAPHENE
TURBIDITY
ZINC

OR_CAUSE

ALDRIN
AMMONIA
AQUATIC WEEDS OR ALGAE
ARSENIC
BERYLLIUM
BIOLOGICAL CRITERIA
CADMIUM
CHLORDANE
CHLOROPHYLL-A
CHLORPYRIFOS
CHROMIUM, HEXAVALENT
COPPER
DDE
DDT
DICHLOROETHYLENE/1,1-DCE
DIELDRIN
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
GUTHION(AZINPHOS-METHYL)
HEPTACHLOR
IRON
LEAD
MANGANESE
MERCURY
NICKEL
NITRATES
PENTACHLOROPHENOL (PCP)
PH
PHOSPHORUS
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
SEDIMENTATION
SILVER
TEMPERATURE
TETRACHLOROETHYLENE
TOTAL DISSOLVED GAS
TRICHLOROETHYLENE (TCE)
TURBIDITY
ZINC

PA_CAUSE	PR_CAUSE
AMMONIA, UN-IONIZED	AMMONIA
CAUSE UNKNOWN	ARSENIC
CHLORDANE	CADMIUM
CHLORINE	COPPER
COLOR	CYANIDE
DIOXINS	DISSOLVED OXYGEN
DISSOLVED OXYGEN	ENTEROCOCCUS BACTERIA
EXCESS ALGAL GROWTH	FECAL COLIFORM
MERCURY	LEAD
METALS (OTHER THAN MERCURY)	MERCURY
MIREX	NITRATE/NITRITE
NONPRIORITY ORGANICS	OIL AND GREASE
NOXIOUS AQUATIC PLANTS	OTHER INORGANICS
NUTRIENTS	PESTICIDES
OIL AND GREASE	PH
ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN	PHOSPHORUS
OTHER CAUSE	SELENIUM
OTHER HABITAT ALTERATION(S)	SILVER
OTHER INORGANICS	SURFACTANTS
PATHOGENS	THERMAL MODIFICATIONS
PESTICIDES	TOTAL COLIFORM
PH	TURBIDITY
POLYCHLORINATED BIPHENYLS (PCBS)	
PRIORITY ORGANICS COMPOUNDS	
SALINITY/TOTAL DISSOLVED SOLIDS/CHLORIDES	
SILTATION	
SUSPENDED SOLIDS	
TASTE AND ODOR	
THERMAL MODIFICATIONS	
TURBIDITY	
UNKNOWN TOXICITY	

RI_CAUSE

ALUMINUM
AMBIENT BIOASSAYS - CHRONIC AQUATIC TOXICITY
AQUATIC MACROINVERTEBRATE BIOASSESSMENTS
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CADMIUM
CHLORIDE
COPPER
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
IRON
LEAD
MERCURY
MERCURY IN FISH TISSUE
MERCURY IN WATER COLUMN
NITROGEN, TOTAL
PCB(S) IN FISH TISSUE
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
SEDIMENT BIOASSAYS FOR ESTUARINE AND MARINE WATER
TOTAL SUSPENDED SOLIDS (TSS)
TURBIDITY
WHOLE EFFLUENT TOXICITY (WET)

SC_CAUSE
AMMONIA, TOTAL
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CHLOROPHYLL-A
CHROMIUM, TOTAL
COPPER
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
MERCURY
NICKEL
NITROGEN, TOTAL
PH
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
TURBIDITY
ZINC

SD_CAUSE
CAUSE UNKNOWN
CHLOROPHYLL-A
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
MERCURY
PH
SALINITY
SODIUM
SPECIFIC CONDUCTIVITY
TEMPERATURE, WATER
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL SUSPENDED SOLIDS (TSS)

TN_CAUSE

ACETONE
ALDRIN
ALTERATION IN STREAM-SIDE OR LITTORAL VEGETATIVE COVERS
ALUMINUM
AMMONIA, UN-IONIZED
AQUATIC PLANTS - NATIVE
ARSENIC
CAUSE UNKNOWN
CESIUM
CHLORDANE
CHLORIDE
CHLORINE
CHROMIUM, HEXAVALENT
COAL ASH
COLOR
COPPER
CREOSOTE
DDT
DIELDRIN
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
ENDRIN
ESCHERICHIA COLI (E. COLI)
IRON
LEAD
MANGANESE
MERCURY
NITRATE/NITRITE (NITRITE + NITRATE AS N)
NITRATES
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
ODOR THRESHOLD NUMBER
OIL AND GREASE
OTHER ANTHROPOGENIC SUBSTRATE ALTERATIONS
PCB-1260
PH
PH, LOW
PHOSPHATE
PHOSPHORUS, TOTAL
PHYSICAL SUBSTRATE HABITAT ALTERATIONS
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
RDX (HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE)
SEDIMENTATION/SILTATION
SILTATION
SLUDGE
SOLIDS (SUSPENDED/BEDLOAD)

TX_CAUSE	UT_CAUSE
ALUMINUM	ARSENIC
BACTERIA	BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BACTERIA (OYSTER WATERS)	BORON
CHLORIDE	CADMIUM
COPPER	DISSOLVED OXYGEN
DDE	ESCHERICHIA COLI (E. COLI)
DIOXIN (INCLUDING 2,3,7,8-TCDD)	FECAL COLIFORM
DISSOLVED OXYGEN	MERCURY IN FISH TISSUE
FISH COMMUNITY	PCB(S) IN FISH TISSUE
IMPAIRED MACROBENTHOS COMMUNITY	PH
MERCURY IN FISH TISSUE	PHOSPHORUS, TOTAL
MERCURY IN WATER COLUMN	SELENIUM
PCB(S) IN FISH TISSUE	TEMPERATURE, WATER
PH	TOTAL DISSOLVED SOLIDS (TDS)
SEDIMENT TOXICITY	
SELENIUM	
SULFATES	
TOTAL DISSOLVED SOLIDS (TDS)	
TOXICITY	
ZINC	

VA_CAUSE
ALDRIN
AMMONIA, UN-IONIZED
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BENZO[A]PYRENE
BENZO[B]FLUORANTHENE
BENZO[K]FLUORANTHENE
CADMIUM
CHLORDANE
CHLORIDE
CHLOROPHYLL-A
COPPER
DDD
DDE
DDT
DDT IN TISSUE
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
ESCHERICHIA COLI (E. COLI)
ESTUARINE BIOASSESSMENTS
FECAL COLIFORM
HEPTACHLOR EPOXIDE
MACROPHYTES
MERCURY IN FISH TISSUE
MIREX
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
PCB(S) IN FISH TISSUE
PH
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
SEDIMENT BIOASSAYS FOR ESTUARINE AND MARINE WATER
TEMPERATURE
ZINC

VI_CAUSE
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
PH
PHOSPHORUS
SECCHI DISK TRANSPARENCY
TEMPERATURE
TOXICITY
TURBIDITY

VT_CAUSE

AG RUNOFF
ASBESTOS
ESCHERICHIA COLI (E. COLI)
IRON
METALS, ACID - MINING
NUTRIENTS
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
PCB(S) IN FISH TISSUE
PH
PH, LOW
PHOSPHORUS, TOTAL
SEDIMENTATION/SILTATION
STORMWATER
TEMPERATURE, WATER
TOXICS
ZINC

WA_CAUSE

1,2,4-TRICHLOROBENZENE
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (ONLY)
2,4-DIMETHYLPHENOL
2-METHYLNAPHTHALENE
4-METHYLPHENOL
ACENAPHTHENE
ACENAPHTHYLENE
ALDRIN
ALPHA-BHC
AMMONIA, TOTAL
ANTHRACENE
ARSENIC
BENZOIC ACID
BENZO[A]ANTHRACENE
BENZO[A]PYRENE
BENZO[B]FLUORANTHENE
BENZO[G,H,I]PERYLENE
BENZO[K]FLUORANTHENE
BENZYL ALCOHOL
BIOASSESSMENT
BIS(N-OCTYL) PHTHALATE
BUTYL BENZYL PHTHALATE
CADMIUM
CHLORDANE
CHLORINATED PESTICIDES
CHLORINE
CHLORPYRIFOS
CHROMIUM, TOTAL
CHRYSENE
COPPER
DDD
DDE
DDT
DEHP (DI-SEC-OCTYL PHTHALATE)
DIAZINON
DIBENZOFURAN
DIBENZ[A,H]ANTHRACENE
DIBUTYL PHTHALATE
DIELDRIN
DIETHYL PHTHALATE
DIMETHYL PHTHALATE
DIOXIN
DISSOLVED OXYGEN
ENDOSULFAN
FECAL COLIFORM
FINE SEDIMENT

WI_CAUSE

AMMONIA
AQUATIC TOXICITY
ARSENIC
BACTERIA
BEACH CLOSURES
BIOCHEMICAL OXYGEN DEMAND (BOD)
COAL TAR
CREOSOTE
DEGRADED HABITAT
DIOXIN
DISSOLVED OXYGEN
EUTROPHICATION
FISH CONSUMPTION ADVISORY
FISH CONSUMPTION ADVISORY - MERCURY
FISH CONSUMPTION ADVISORY - PCBS
FISH KILL(S)
MERCURY
METALS (OTHER THAN MERCURY)
NUTRIENTS
PETROLEUM PRODUCTS
PH
PHOSPHORUS
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
SEDIMENT
SEDIMENT OXYGEN DEMAND
TEMPERATURE
TOXIC SUBSTANCES
TURBIDITY
URBAN RUNOFF
WILDLIFE
WINTER KILLS

WV_CAUSE

2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (ONLY)
ALUMINUM
BACTERIA
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CHLORIDE
DISSOLVED OXYGEN
FECAL COLIFORM
IRON
LEAD
MANGANESE
METALS (OTHER THAN MERCURY)
NITRITE AS NITROGEN
PH
POLYCHLORINATED BIPHENYLS (PCBS)
SELENIUM
TEMPERATURE
ZINC

WY_CAUSE

AMMONIA, UN-IONIZED
ARSENIC
CHLORIDE
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
MANGANESE
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
OIL AND GREASE
PH
PHOSPHATE
PHYSICAL SUBSTRATE HABITAT ALTERATIONS
SEDIMENTATION/SILTATION
SELENIUM
TEMPERATURE, WATER

TN
TT
TX
UT
VA
VI
VT
WA
WI
WV
WY

CYANOBACTERIA HEPATOTOXIC MICROCYSTINS
DDD
DDE
DDT
DDT IN SEDIMENT
DDT IN TISSUE
DDT IN TISSUE AND SEDIMENT
DEBRIS
DIAZINON
DIBENZ[A,H]ANTHRACENE
DICHLORVOS
DIELDRIN
DIELDRIN IN SEDIMENT
DIELDRIN IN TISSUE
DIMETHOATE
DIOXIN
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
DISULFOTON
DIURON
ENDOSULFAN
ENDRIN
ENTEROCOCCUS BACTERIA
ESCHERICHIA COLI (E. COLI)
EUTROPHICATION
EXOTIC VEGETATION
FECAL COLIFORM
FISH BARRIERS
FISH CONSUMPTION ADVISORY
FISH KILL(S)
FLUORIDE
FURAN COMPOUNDS
GROUP A PESTICIDES
GUTHION(AZINPHOS-METHYL)
HEPTACHLOR EPOXIDE
HEXACHLOROBENZENE
HYDROGEN SULFIDE
HYDROMODIFICATION
INDICATOR BACTERIA
INVASIVE EXOTIC SPECIES
IRON
LEAD
LINDANE
MALATHION
MANGANESE
MERCURY
MERCURY IN FISH TISSUE

TOTAL DISSOLVED SOLIDS (TDS)
TOTAL KJEHLDAHL NITROGEN (TKN)
TOTAL SUSPENDED SOLIDS (TSS)
TURBIDITY
ZINC

POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
SALINITY
SECCHI DISK TRANSPARENCY
SEDIMENT BIOASSAY
SEDIMENT BIOASSAYS - ACUTE TOXICITY FRESHWATER
SEDIMENT SCREENING VALUE (EXCEEDENCE)
SEDIMENTATION/SILTATION
SULFIDE-HYDROGEN SULFIDE
TASTE AND ODOR
TEMPERATURE, WATER
TOTAL SUSPENDED SOLIDS (TSS)
TURBIDITY
WHOLE EFFLUENT TOXICITY (WET)

SODIUM
SOLIDS (SUSPENDED/BEDLOAD)
SPECIFIC CONDUCTIVITY
SULFATES
TEMPERATURE, WATER
THALLIUM
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL KJEHLDAHL NITROGEN (TKN)
TURBIDITY
URANIUM
ZINC

LINDANE
MANGANESE
MERCURY
NAPHTHALENE
NICKEL
NITROGEN, TOTAL
PH
PHENANTHRENE
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
PYRENE
SEDIMENTATION/SILTATION
TASTE AND ODOR
TRANS-NONACHLOR
TURBIDITY
ZINC

PH
PHENOL
PHOSPHORUS
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
PRIORITY ORGANICS
PRIORITY POLLUTANTS
PROBLEM SPECIES
SALTS
SEDIMENTATION/SILTATION
SLUDGE
THERMAL MODIFICATIONS
TOTAL TRIHALOMETHANE (TTHM)
TRASH
TURBIDITY
UNKNOWN TOXICITY
VOLATILE ORGANICS (VOCS)
ZINC

SEDIMENTATION/SILTATION
SILTATION
SULFATES
SUSPENDED SOLIDS
TASTE AND ODOR
TEMPERATURE
THERMAL MODIFICATIONS
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL TOXICS
TURBIDITY
UNKNOWN TOXICITY
ZINC

STRONTIUM
SULFATES
SULFIDE-HYDROGEN SULFIDE
TASTE AND ODOR
TEMPERATURE, WATER
TOLUENE
TOTAL DISSOLVED SOLIDS (TDS)
WHOLE EFFLUENT TOXICITY (WET)
ZINC

FLUORANTHENE
FLUORENE
FURAN COMPOUNDS
HEPTACHLOR
HEXACHLOROBENZENE
HEXACHLOROBUTADIENE
HPAH
INDENO[1,2,3-CD]PYRENE
LEAD
LPAH
MERCURY
N-NITROSODIPHENYLAMINE
NAPHTHALENE
NITROGEN, TOTAL
O-CRESOL (2-METHYLPHENOL)
O-DICHLOROBENZENE
P-DICHLOROBENZENE
PENTACHLOROPHENOL (PCP)
PH
PHENANTHRENE
PHENOL
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
PYRENE
SEDIMENT BIOASSAY
SILVER
TEMPERATURE
TOTAL BENZOFLUORANTHENES
TOTAL DISSOLVED GAS
TOXAPHENE
TURBIDITY
WATER COLUMN BIOASSAY
ZINC

MERCURY IN SEDIMENT
METALS (OTHER THAN MERCURY)
MOLYBDENUM
NICKEL
NITRATE
NITRATE/NITRITE
NITRITE AS NITROGEN
NITROGEN
NITROGEN, NITRATE
NITROGEN, TOTAL
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
NUTRIENTS
ODORS
OIL
ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN
ORGANOPHOSPHORUS PESTICIDES
OTHER HABITAT ALTERATION(S)
OXYFLUORFEN
PATHOGENS
PCB(S) IN FISH TISSUE
PCBS - DIOXIN-LIKE
PCBS IN SEDIMENTS AND FISH TISSUE
PENTACHLOROPHENOL (PCP)
PERCHLORATE
PERMETHRIN
PESTICIDES
PH
PH, HIGH
PH, LOW
PHENANTHRENE
PHOSPHATE
PHOSPHORUS
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
PRIORITY ORGANICS COMPOUNDS
PROMETRYN
PUMPING
PYRENE
PYRETHROIDS
REDUCED TIDAL FLUSHING
SALINITY
SALINITY/TOTAL DISSOLVED SOLIDS/CHLORIDES
SCUM/FOAM, UNNATURAL
SEDIMENT
SEDIMENT TOXICITY
SEDIMENTATION/SILTATION
SELENIUM

SHELLFISH HARVESTING ADVISORY
SILVER
SIMAZINE
SODIUM
SOLIDS
SPECIFIC CONDUCTIVITY
SULFATES
SURFACTANTS
SYNTHETIC ORGANICS
TEMPERATURE
TEMPERATURE, WATER
THALLIUM
TOTAL COLIFORM
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL SUSPENDED SOLIDS (TSS)
TOXAPHENE
TOXICITY
TRACE ELEMENTS
TRASH
TRIFLURALIN
TURBIDITY
UNKNOWN TOXICITY
WATER DIVERSION
ZINC