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**REPORT OF THE EXPERTS SCIENTIFIC WORKSHOP ON CRITICAL
RESEARCH NEEDS FOR THE DEVELOPMENT OF NEW OR REVISED
RECREATIONAL WATER QUALITY CRITERIA**

**Airlie Center
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ACRONYMS

7Q10	the lowest streamflow for 7 consecutive days that occurs on average once every 10 years
AWQC	ambient water quality criteria
ASABE	American Society of Agricultural and Biological Engineers
ATP	adenosine triphosphate
BEACH Act	Beaches Environmental Assessment and Coastal Health Act of 2000
BMP	Best Management Practices
CAFO	concentrated animal feeding operation
CDC	Centers for Disease Control and Prevention
cfu	colony forming unit
CSO	combined sewer overflow
CWA	Clean Water Act
DNA	deoxyribonucleic acid
DU	designated use
EHEC	enterohemorrhagic <i>E. coli</i>
EPA	U.S. Environmental Protection Agency
EU	European Union
FDA	U.S. Food and Drug Administration
FFU	focus forming units
GC/MS	gas chromatography-mass spectrometry
GI	gastrointestinal
GIS	geographic information systems
GM	geometric mean
HACCP	Hazard Analysis Critical Control Point
HEV	hepatitis E virus
HIV/AIDS	human immunodeficiency virus/acquired immune deficiency syndrome
HPLC	high performance liquid chromatography
HSPF	Hydrological Simulation Program-Fortran
ILSI	International Life Sciences Institute
IMS	immunomagnetic separation
ISO	International Organization for Standardization
L	Liter
mL	Milliliter
MPN	Most Probable Number
MST	microbial source tracking
NASBA	nucleic acid sequence based amplification
NEEAR	National Epidemiological and Environmental Assessment of Recreational Water Study
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination System
NPS	non-point source program
NWS	National Weather Service
PCR	polymerase chain reaction
pfu	plaque forming unit

POP	probability of precipitation
POTW	publicly owned [wastewater] treatment works
QMRA	quantitative microbial risk assessment
qPCR	quantitative polymerase chain reaction
RCT	randomized controlled trial
RDS	relative standard deviation
RMSE	root mean square error
RNA	ribonucleic acid
SAFE	Swimming Advisory Forecast Estimate
SCCWRP	Southern California Coastal Water Research Project
SD	standard deviation
SETAC	Society of Environmental Toxicology and Chemistry
SRC	sulphite-reducing clostridia
SSM	single sample maximum
SSO	sanitary sewer overflow
STEC	shiga-toxin producing <i>E. coli</i>
SWMM	Storm Water Management Model
TMA	transcription-mediated amplification
TMDL	total maximum daily load
UAA	Use Attainability Analysis
U.K.	United Kingdom
URI	upper respiratory illness
U.S.	United States
USGS	U.S. Geological Survey
UV	ultraviolet light
WQS	Water Quality Standards
WHO	World Health Organization (United Nations)