

Final 2015 Tiered Monitoring Assessment of Coastal New Hampshire Beaches



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1. Introduction

The New Hampshire Department of Environmental Services (NHDES) recognizes a public health threat may exist within recreational waters and tests the water at the state's beaches to ensure swimmers are not exposed to disease-causing pathogens. In New Hampshire, bathing beach water quality is regulated by **RSA 485-A:8-Standards for Classification of Surface Waters of the State**. Under these rules, NHDES has operated a Public Beach Inspection Program, commonly called the Beach Program, for over 20 years.

Coastal beaches are monitored for the presence of the fecal bacteria Enterococci which are present in the intestines of warm-blooded animals including humans. Enterococci, when present in high concentrations, indicate excessive amounts of fecal matter from warm-blooded animals. When excessive amounts of fecal matter are found, pathogens that commonly cause gastrointestinal illnesses such as nausea, vomiting and diarrhea are probably also present in the waterbody.

In October 2000, the United States Congress amended the Clean Water Act to include the BEACH Act. The Environmental Protection Agency (EPA) was then authorized to award grants to eligible states to develop and implement monitoring and notification programs. Funding has been awarded to the New Hampshire Department of Environmental Services (DES) to enhance its coastal beach sampling program. DES has developed this risk-based coastal beach evaluation to direct water quality monitoring resources to the coastal beaches that pose the greatest health concern. Risk-based evaluations identify those beaches with more pristine records which can be monitored less often. Such a system is consistent with United States Environmental Protection Agency (EPA) recommendation that an evaluation and classification process use a three-tiered approach to efficiently allocate monitoring and public notification resources to waters based on use and level of public health concern. In New Hampshire, tier one beaches are sampled twice a week during the summer because the waters receive such high usage that significant resources are devoted to more intensive monitoring and public notification efforts. Tier two beaches are tested weekly as the most efficient testing frequency to protect public health based on water quality results and usage. Tier three beaches, sampled every other week, are waters are of low health concern which receive low usage.

2. Purpose

The BEACH Act requires a state to develop a risk-based beach evaluation and

classification plan and apply it to state or tribal coastal recreation waters. New Hampshire is required to describe the factors used in its evaluation and classification process and explain how its coastal recreation waters are ranked as a result of the process. This process has resulted in the identification of a list of coastal recreation waters, including coastal recreation waters adjacent to beaches or similar points of access used by the public.

The BEACH Act also requires development of an adequate tiered monitoring plan. This plan must adequately address the frequency and location of monitoring and assessment of coastal recreation waters based on the periods of recreational use of the waters, the nature and extent of use during certain periods, the proximity of the waters to known point sources and nonpoint sources of pollution, and any effect of storm events on the waters.

3. Comprehensive Tiered Monitoring Plan

In order to be useful, the tiered monitoring plan must have the following four facets. Coastal beaches used by the public for swimming, bathing, surfing, or similar water contact activities must be identified. Assessment of existing monitoring data such as previous sampling and inclusion on “The CWA Section 305(b), List of Impaired Waters” is to be considered for classification. Other available pertinent information such as historical knowledge of the beach, its uses, and possible sources of microbial pathogens, must be reviewed to classify a beach. Finally, quality control policies, procedures and quality assurance plans must be developed and submitted by NHDES to EPA for approval.

4. Implementation of Comprehensive Tiered Monitoring Plan

Each beach was evaluated using the Risk-Based Beach Evaluation Form as outlined in the Standard Operating Procedure for Risk-Based Beach Evaluations. The three aspects of the evaluation are microbial bacteria sources, beach history and beach usage. Twenty-four criteria in these areas were evaluated and given numerical assessment as follows: not an issue (0 points), no data/low priority (2 points), or high Priority (3 or 4 points). Initial classifications were assigned as: tier 3 (<38 points), tier 2 (38 to 52 points) or tier 1 (>52 points). The final tier assignment was adjusted if the beach was either a state park or listed on “The CWA Section 305(b), List of Impaired Waters”. Beaches that were classified as such are moved up one tier if initially assessed as a tier 2 or 3 beach.

Bass Beach, North Hampton

Rocky beach not suitable for swimming, but surfers use it frequently.

Total Score	Tier	Change due to Impairment Yes
31	3	
Final Tier	2	FOR SUMMER 2015

9/22/2014

Evaluation	Score	Data/Source
Average annual precipitation	≥ 25 inches	3 Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0 Weather-NWS
Data available from monitoring rainfall vs. bacteria counts	Moderate or high detected risks	3 affected by stream discharged during wet
Source of fecal contamination within 1 mile of beach-other than WWTF or septic fields	1 or more actual sources (4 points)	4 actual sources. PS8 and 9 are potential sources.
Point sources: industrial waste within 1 mile of beach	None	0 None-Shellfish program
Number of CSOs within 5 miles of beach	None	0 None-Shellfish program
Proximity of WWTF discharge to beach	< 5 miles	3 Wallis Sands WWTF. NPDES
Estimated number of septic systems within 1 miles of beach	≥ 25	3 200 Town of North Hampton
Do town ordinances allow domestic animals on this beach during bathing season?	No	0 No Town of North Hampton
Marina with boat pumpout facilities within 1 mile of beach	No marina	0 CVA/NH Division of Ports and Harbors
Presence of boat mooring sites within 1 mile of beach	None	0 CVA/NH Division of Ports and Harbors
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4 Brook, Unnamed Brook, Little River
Mean number of days in bathing season	≥ 50	3 Memorial Day-Labor Day, 2.3 people per inspection
Mean number of people in water at each inspection	<5	0 DES Beach Program Hampton/DES Beach Program
Reported health issues	No issues reported	0
HISTORICAL exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	1-5 exceedances or data not available	2 DES data, 1 in 2013
Mean time for public notification	< 24 hours	0 <24 hours--DES QAPP
Mean number of days beach affected by advisory during bathing season	<2 days	0 seasons) DES Beach Data
Mean high water temperature during swim season	<15.6°C	0 temp DES data
Dogs, birds and wildlife present on beach during inspections	Present at 25%-50% of inspections	2 5 out of 12/ 42% of visits DES Beach Data
Beach importance to the local economy	Not important to economy	0 Not important to economy - Town of North Hampton
Beach importance to public	Moderately popular or not assessed	2 Beach is popular for surfers. Town of North Hampton
Explain any other factors at this beach that need to receive greater considerations	2	2 affected by stream discharged from brook
305b Listed and a State Park?	Yes	Yes tier 2: Advisory in '04 & '06; Not many people

Classification Phase	Points/Tier	Initial Evaluation Score
Initial Classification Points & Tier		≥53points: Tier 1
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to		38-52 Points: Tier 2 ≤37 points: Tier 3

Foss Beach, Rye

Beach is rocky at high tide and sandy during low.

Total Score	Tier
35	3
Final Tier	3

Change due to Impairment & a State Park
No

FOR SUMMER 2015

9/22/2014

Evaluation	Score	Data/Source
Average annual precipitation	≥ 25 inches	3 41"--Concord Annual Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0 0 events--Concord Weather-NWS
Data available from monitoring rainfall vs. bacteria counts	No risk	0 DES Beach Program
Source of fecal contamination within 1 mile of beach-other than WWTF or septic fields	1 or more actual sources (4 points)	4 PS5 Parson's Creek is an actual source. Shellfish Program.
Point sources: industrial waste within 1 mile of beach	None	0 Shellfish program
Number of CSOs within 5 miles of beach	None	0 Shellfish program
Proximity of WWTF discharge to beach	< 5 miles	3 Wallis Sands WWTF. NPDES
Estimated number of septic systems within 1 miles of beach	≥ 25	3 ~ 75, Mike Labrie, Town of Rye
Do town ordinances allow domestic animals on this beach during bathing season?	Yes	3 Allowed 7 pm-9am, Town of Rye Beach Ordinances
Marina with boat pumpout facilities within 1 mile of beach	Marina without pumpout facility	3 Rye Harbor Marina without pumpout facility CVA/NH Division of Ports and Harbors
Presence of boat mooring sites within 1 mile of beach	≥ 10 moorings present (4 points)	4 Over 100 moorings at Rye Harbor CVA/NH Division of Ports and Harbors
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4 2004 CALM Chapel Brook, Unnamed Brook, Little River
Mean number of days in bathing season	≥ 50	3 Memorial Day-Labor Day, Avg 99 dys
Average number of people in water during each inspection	<5	0 0.6 2014 DES Beach Program
Reported health issues	No issues reported	0 Town of North Hampton/DES Beach Program
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	1-5 exceedances or data not available	2 2 in 2010 DES Beach data
Mean time for public notification	< 24 hours	0 <24 hours--DES QAPP
Mean number of days beach affected by advisory during bathing season	<2 days	0 0 days in 2014
Mean high water temperature during swim season	<15.6°C	0 14.63 C 2014 temp DES data
Dogs, birds and wildlife present on beach during inspections	Present at > 50% of inspections	3 80% (8 of 10) of visits 2014 DES Beach Data
Beach importance to the local economy	Not important to economy	0 Not important to local economy Mike Labrie, Town of Rye
Beach importance to public	Beach not considered a popular area for tourists or residents	0 Moderately popular
Explain any other factors at this beach that need to receive greater considerations	0	0 None,DES BEACH program
305b Listed and a State Park?	No	No

Classification Phase	Points/Tier
Initial Classification Points & Tier	
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to	

Evaluation Score
≥53points: Tier 1
38-52 Points: Tier 2
≤37 points: Tier 3

Hampton Beach SP, Hampton

Long, wide, sandy beach. Most popular for tourists and residents

Total Score	Tier
40	2
Final Tier	1

Change due to Impairment & a State Park
Yes

FOR SUMMER 2015

9/23/2014

9/23/2014	Evaluation	Score	Data/Source
Average annual precipitation	≥ 25 inches	3	41"--Concord Annual Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0	0 events--Concord Annual Weather-NWS
Data available from monitoring rainfall vs. bacteria counts	No risk	0	No risks DES Beach Program
Source of fecal contamination within 1 mile of beach-other than WWTF or septic fields	1 or more actual sources (4 points)	4	AC/HMP/267/51. Hampton WWTF outfall. Shellfish Program & NPDES
Point sources: industrial waste within 1 mile of beach	None	0	None-Shellfish program
Number of CSOs within 5 miles of beach	None	0	None-Shellfish program
Proximity of WWTF discharge to beach	< 5 miles	3	away. Seabrook WWTF discharge ~1.6 mi away. NPDES
Estimated number of septic systems within 1 miles of beach	None	0	None, Brian Warburton (NHDRED)
Do town ordinances allow domestic animals on this beach during bathing season?	No	0	No. Brian Warburton (NHDRED)
Marina with boat pumpout facilities within 1 mile of beach	Marina with pumpout facility or data not available	2	Hampton Harbor State Marina with pumpout facility. CVA/NH Division of Ports and Harbors
Presence of boat mooring sites within 1 mile of beach	≥ 10 moorings present (4 points)	4	Over 20 moorings CVA/NH Division of Ports and Harbors
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4	2010 CALM Hampton River, Hampton/Seabrook Harbor
Mean number of days in bathing season	≥ 50	3	Memorial Day-Labor Day, Avg 99 dys
Average number of people in water at each inspection	> 15 (4 points)	4	84.9 2014 DES Beach Program
Reported health issues	1-2 issues or data not available	2	1 reported in 2011-DES Beach Program, 1-Reported in 2013 in EMD Beach data
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	1-5 exceedances or data not available	2	1 in '11 DES data
Mean time for public notification	< 24 hours	0	<24 hours--DES QAPP
Mean number of days beach affected by advisory during bathing season	<2 days	0	0 days- 2014 DES Beach Data EMD
Mean high water temperature during swim season	<15.6°C	0	15.07 C DES temp data 2014
Dogs, birds and wildlife present on beach during inspections	Present at > 50% of inspections	3	96% (23 of 24) of visits DES Beach Data
Beach importance to the local economy	Highly important to economy	3	EXTREMELY Important DRED
Beach importance to public	Beach is considered a highly popular area for tourists or residents	3	YES! DRED
Explain any other factors at this beach that need to receive greater considerations		0	0 None,DES BEACH program
305b Listed and a State Park?	Yes	Yes	State Park & on 305b list

Classification Phase	Points/Tier	Evaluation Score
Initial Classification Points & Tier		≥53points: Tier 1 38-52 Points: Tier 2 ≤37 points: Tier 3
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to		

Hampton Harbor Beach, Hampton
Soft sand beach located on Hampton Harbor near condos, the yacht club and marina

Total Score	Tier
28	3
Final Tier	3

Change due to Impairment & a State Park
No
FOR SUMMER 2015

9/23/2014

Evaluation	Score	Data/Source
Average annual precipitation	≥ 25 inches	3 0 events--Concord Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0 41"--Concord Annual Weather-NWS
Data available from monitoring rainfall vs. bacteria counts	No risk	0 None DES Beach Program
Source of fecal contamination within 1 mile of beach-other than WWTF or septic fields	1 or more potential sources or data not available	2 Boat sewage: potential Shellfish Program & NPDES
Point sources: industrial waste within 1 mile of beach	None	0 None Shellfish program
Number of CSOs within 5 miles of beach	None	0 None Shellfish program
Proximity of WWTF discharge to beach	< 5 miles	3 Both Seabrook and Hampton WWTF. Shellfish Program & NPDES
Estimated number of septic systems within 1 miles of beach	None	0 None
Do town ordinances allow domestic animals on this beach during bathing season?	Yes	3 Between 8pm and 8 am Kevin Schultz, Town of Hampton
Marina with boat pumpout facilities within 1 mile of beach	Marina with pumpout facility or data not available	2 Marina with pumpout facility. CVA
Presence of boat mooring sites within 1 mile of beach	≥ 10 moorings present (4 points)	4 Over 20 moorings adjacent to marina. CVA & NH Div. of Ports & Harbors
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4 Hampton/Seabrook Harbor 2010 CALM
Mean number of days in bathing season	≥ 50	3 Memorial Day-Labor Day, Avg 99 dys
Average number of people in water at each inspections	<5	0 <u>0.4</u> 2014 DES Beach Program
Reported health issues	No issues reported	0 None -Town of Hampton/DES Beach Program
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	No exceedances	0 <u>None</u> DES data.
Mean time for public notification	< 24 hours	0 <24 hours--DES QAPP
Mean number of days beach affected by advisory during bathing season	<2 days	0 0 (0 days for last 5 years) DES Beach Data
Mean high water temperature during swim season	<15.6°C	0 14.39 C temp 2014 DES data
Dogs, birds and wildlife present on beach during inspections	Present at 25%-50% of inspections	2 40% (2 of 5) of inspections 2014 DES Beach Data
Beach importance to the local economy	Not important to economy	0 Not Important Kevin Schultz, Town of Hampton/DES Beach Program
Beach importance to public	Beach not considered a popular area for tourists or residents	0 Not popular Kevin Schultz, Town of Hampton/DES Beach Program
Explain any other factors at this beach that need to receive greater considerations		2 Storm drain outlet discharge to rt end of beach, DES BEACH program
305b Listed and a State Park?	No	No

Classification Phase	Points/Tier	Evaluation Score
Initial Classification Points & Tier		≥53points: Tier 1
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to		38-52 Points: Tier 2 ≤37 points: Tier 3

Jenness Beach @ Cable Road, Rye

Beach is fairly long and sandy with access limited mostly to residents.

Total Score	Tier
43	2
Final Tier	1

Change due to Impairment & a State Park Yes

FOR SUMMER 2015

9/23/2014

	Evaluation	Score	Data/Source
Average annual precipitation	≥ 25 inches	3	41"--Concord Annual Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0	0 events- Concord Weather-NWS
Data available from monitoring rainfall vs. bacteria counts	No risk	0	None DES Beach Program
Source of fecal contamination within 1 mile of beach-other than WWTF or septic fields	1 or more actual sources (4 points)	4	AC/Rye/5.0/A+B, AC/Rye/2/69, AC/Rye/2/73, and AC/Rye/2/84. Shellfish Program
Point sources: industrial waste within 1 mile of beach	None	0	None-Shellfish program
Number of CSOs within 5 miles of beach	None	0	None-Shellfish program
Proximity of WWTF discharge to beach	None	0	Wallis Sands SP has a UV facility on site & no advisories ever at Wallis SandsShellfish
Estimated number of septic systems within 1 miles of beach	< 25 or data not available	2	Estimated 5-10% of homes have septic w/in 1 mile of beach. Have to guess there is at least 1 home but cannot say there are more than 25. (Rye Beach Commission)
Do town ordinances allow domestic animals on this beach during bathing season?	Yes	3	Animals allowed after beach hours (9-7pm) (Rye Beach Commission)
Marina with boat pumpout facilities within 1 mile of beach	Marina without pumpout facility	3	Marina without pumpout facility located at Rye Harbor SP. CVA/Port Authority
Presence of boat mooring sites within 1 mile of beach	≥ 10 moorings present (4 points)	4	Over 100 moorings around Rye Harbor SP. CVA & NH Div. of Ports & Harbors
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4	Chapel Bk, Unnamed Bk, Little River 2010 CALM
Mean number of days in bathing season	≥ 50	3	Memorial Day-Labor Day, Avg 99 dys
Average number of people in water at each inspection	> 15 (4 points)	4	24.7 2014 DES Beach Program
Reported health issues	No issues reported	0	None-DRED/DES Beach Program
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	1-5 exceedances or data not available	2	1 in '13--DES data
Mean time for public notification	< 24 hours	0	<24 hours--DES QAPP
Mean number of days beach affected by advisory during bathing season	<2 days	0	0 days in 2014
Mean high water temperature during swim season	≥ 15.6°C	3	15.66 C 2014 temp DES data
Dogs, birds and wildlife present on beach during inspections	Present at > 50% of inspections	3	87% (20 of 23) of visits 2014 DES Beach Data
Beach importance to the local economy	Highly important to economy	3	Highly Important Rye Beach Committee
Beach importance to public	Moderately popular or not assessed	2	Moderately popular Rye Beach Committee
Explain any other factors at this beach that need to receive greater considerations	0	0	No factors
305b Listed and a State Park?	Yes	Yes	Listed on 305b

Classification Phase	Points/Tier
Initial Classification Points & Tier	
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to	

Evaluation Score
≥53points: Tier 1
38-52 Points: Tier 2
≤37 points: Tier 3

Jenness Beach SP, Rye

Total Score	Tier
37	3
Final Tier	2

Change due to Impairment & a State Park
Yes

FOR SUMMER 2015

The beach area is sandy and highly populated by locals and tourists

9/23/2014

Evaluation	Score	Data/Source
Average annual precipitation	≥ 25 inches	3 41"--Concord Annual Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0 0 events- Concord Weather NWS
Data available from monitoring rainfall vs. bacteria counts	No risk	0 Shellfish Data
Source of fecal contamination within 1 mile of beach-other than WWTF or septic fields	1 or more actual sources (4 points)	0 None 4 DES Beach Program
Point sources: industrial waste within 1 mile of beach	None	0 AC/Rye/5.0/A+B, AC/Rye/2/69, AC/Rye/2/73, and AC/Rye/2/84. Shellfish Program
Number of CSOs within 5 miles of beach	None	0 None 0 Shellfish program
Proximity of WWTF discharge to beach	None	0 None--Shellfish program Sands SP has a UV facility on site & no advisories ever at Wallis SandsShellfish Program & NPDES
Estimated number of septic systems within 1 miles of beach	< 25 or data not available	2 Estimated 5-10% of homes have septic w/in 1 mile of beach. 2 septic systems. Brian Warburton (NHDRED)
Do town ordinances allow domestic animals on this beach during bathing season?	No	0 Domestic animals are not allowed on the beach Brian Warburton (NHDRED)
Marina with boat pumpout facilities within 1 mile of beach	Marina without pumpout facility	3 Marina without pumpout facility located at Rye Harbor SP. CVA/Port Authority
Presence of boat mooring sites within 1 mile of beach	≥ 10 moorings present (4 points)	4 Over 100 moorings around Rye Harbor SP. CVA & NH Div. of Ports & Harbors
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4 Chapel Bk (1.38 miles), Unnamed Bk, Little River 2010 CALM
Mean number of days in bathing season	≥ 50	3 Memorial Day-Labor Day, Avg 99 dys
Average number of people in water at each inspection	> 15 (4 points)	4 26.9 2014 DES Beach Program
Reported health issues	No issues reported	0 None-DRED/DES Beach Program
HISTORICAL exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	1-5 exceedances or data not available	2 4 in 2012 DES data.
Mean time for public notification	< 24 hours	0 <24 hours--DES QAPP
Mean number of days beach affected by advisory during bathing season	<2 days	0 0 days in 2014
Mean high water temperature during swim season	<15.6°C	0 14.99 avg temp 2014 DES data
Dogs, birds and wildlife present on beach during inspections	Present at > 50% of inspections	3 57% (8 of 14) of inspections 2014 DES Beach Data
Beach importance to the local economy	Moderately important to economy or not assessed	2 Moderately Important
Beach importance to public	Beach is considered a highly popular area for tourists or residents	3 Moderately Important
Explain any other factors at this beach that need to receive greater considerations	0	0 No factors
305b Listed and a State Park?	Yes	Yes State Park & Listed on the 305b

Classification Phase	Points/Tier	Evaluation Score
Initial Classification Points & Tier		≥53points: Tier 1
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to		38-52 Points: Tier 2 ≤37 points: Tier 3

New Castle TB, New Castle

The beach area is sandy/rocky. No lifeguards. No pets allowed. The

Total Score	Tier
54	1
Final Tier	1

Change due to Impairment & a State Park
Yes

FOR SUMMER 2015

9/24/2014

9/24/2014	Evaluation	Score	Data/Source
Average annual precipitation	≥ 25 inches	3	41"--Concord Annual Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0	0 events-- Concord Weather- NWS
Data available from monitoring rainfall vs. bacteria counts	Low detected risks or data not available	2	low risk, analyzed for Bacteria Source ID project DES Beach Program
Source of fecal contamination within 1 mile of beach other than WWTF or septic fields	1 or more actual sources (4 points)	4	LHPS015 from Little Harbor SS. One actual source: pipe discharging left end of beach.
Point sources: industrial waste within 1 mile of beach	1 or more potential sources or data not available	2	Potential: Portsmouth Naval Shipyard Shellfish program
Number of CSOs within 5 miles of beach	> 2	3	4 CSO's in Portsmouth (NPDES). 2 licensed discharge into South Mill Pond. 1 unlicensed discharges into Piscataqua near NH Port Authority
Proximity of WWTF discharge to beach	< 5 miles	3	Portsmouth WWTF discharges to Piscataqua off of Pierce Island. Shellfish Program & NPDES
Estimated number of septic systems within 1 miles of beach	< 25 or data not available	2	Knows 20 septic systems on island. Brad Meade (Town of New Castle)
Do town ordinances allow domestic animals on this beach during bathing season?	No	0	No. Brad Meade (Town of New Castle)
Marina with boat pumpout facilities within 1 mile of beach	Marina with pumpout facility or data not available	2	facility. CVA
Presence of boat mooring sites within 1 mile of beach	≥ 10 moorings present (4 points)	4	145 moorings, Piscataqua River 131 moorings, Portsmouth Yacht Club 58 moorings CVA
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4	North and South Mill Ponds, Piscataquog River, Little Harbor, 2010 CALM
Mean number of days in bathing season	≥ 50	3	Memorial Day-Labor Day, Avg 99 dys
Average number of people in water during each inspection	Between 5 and 15	2	10.2 2014 DES Beach Program
Reported health issues	No issues reported	0	None -Town of New Castle/DES Beach Program
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	> 5 exceedances (4 Points)	4	1 in '14, 1 in '13, 1 in '12, 3 in '10 (DES data,)
Mean time for public notification	< 24 hours	0	<24 hours--DES QAPP
Mean number of days beach affected by advisory during bathing season	> 3 days	3	4 days in 2014 DES Beach Data
Mean high water temperature during swim season	≥ 15.6°C	3	16.09 C 2014 temp DES data
Dogs, birds and wildlife present on beach during inspections	Present at > 50% of inspections	3	73% (16 of 22)of inspections 2014 DES Beach Data
Beach importance to the local economy	Moderately important to economy or not assessed	2	Moderately Important Brad Meade (Town of New Castle)
Beach importance to public	Beach is considered a highly popular area for tourists or residents	3	Extremely popular Brad Meade (Town of New Castle)
Explain any other factors at this beach that need to receive greater considerations	2	2	Pipe discharge & Bull Toad Marsh, DES BEACH program
305b Listed and a State Park?	Yes	Yes	Listed on 305b

Classification Phase	Points/Tier
Initial Classification Points & Tier	
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to	

Evaluation Score
≥53points: Tier 1
38-52 Points: Tier 2
≤37 points: Tier 3

North Beach, Hampton

This beach is sandy at low tide. At high tide, beach becomes rocky in some areas, or

Total Score	Tier
34	3
Final Tier	2

Change due to Impairment or a State Park
Yes

FOR SUMMER 2015

9/24/2014

Average annual precipitation
Number of significant (> 3 inches) rainfall events in the past year
Data available from monitoring rainfall vs. bacteria counts
Source of fecal contamination within 1 mile of beach-other than WWTF or septic fields
Point sources: industrial waste within 1 mile of beach
Number of CSOs within 5 miles of beach
Proximity of WWTF discharge to beach
Estimated number of septic systems within 1 miles of beach
Do town ordinances allow domestic animals on this beach during bathing season?
Marina with boat pumpout facilities within 1 mile of beach
Presence of boat mooring sites within 1 mile of beach
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach
Mean number of days in bathing season
Average number of people in water during each inspection
Reported health issues
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)
Mean time for public notification
Mean number of days beach affected by advisory during bathing season
Mean high water temperature during swim season
Dogs, birds and wildlife present on beach during inspections
Beach importance to the local economy
Beach importance to public
Explain any other factors at this beach that need to receive greater considerations
305b Listed and a State Park?

Evaluation	Score	Data/Source
≥ 25 inches	3	41"--Concord Annual Weather-NWS
No events	0	0 events- Concord weather NWS
No risk	0	None DES Beach Program
1 or more actual sources (4 points)	4	Hampton WWTF outfall is an actual direct, AC/HMP/267/51 is a potential direct, AC/Rye/NHM/Little River is an actual direct source. Shellfish Program & NPDES
None	0	None-Shellfish program
None	0	None-Shellfish program
< 5 miles	3	mi. away and Seabrook WWTF discharges ~3.5 mi away.NPDES
< 25 or data not available	2	Approx. 2 septics Brian Warburton (NHDRED)
No	0	No Brian Warburton (NHDRED)
No marina	0	None CVA
None	0	None CVA & NH Div. of Ports & Harbors
≤ 2 miles (4 points)	4	Hampton/Seabrook Harbor, Little River 2010 CALM
≥ 50	3	Memorial Day-Labor Day, Avg 99 dys
> 15 (4 points)	4	15.7 2014 DES Beach Program
No issues reported	0	None -DRED/DES Beach Program
1-5 exceedances or data not available	2	2 (1 in '11, 1 in '13) DES data,
< 24 hours	0	<24 hours--DES QAPP
<2 days	0	0 days
<15.6°C	0	14.67 C 2014 temp DES data
Present at > 50% of inspections	3	93% (13 of 14) of inspections 2014 DES Beach Data
Highly important to economy	3	Highly Important Brian Warburton (NHDRED) /Beach Program
highly popular area for tourists or residents	3	Extremely popular Brian Warburton (NHDRED) /Beach Program
0	0	None
Yes	Yes	State Park only

Classification Phase	Points/Tier
Initial Classification Points & Tier	
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to	

Evaluation Score
≥53points: Tier 1
38-52 Points: Tier 2
≤37 points: Tier 3

Northside Park, Hampton

Long, sandy beach with parking for Hampton residents only.

Total Score	Tier
30	3
Final Tier	3

Change due to Impairment & a State Park No
FOR SUMMER 2015

9/24/2014

Evaluation	Score	Data/Source
Average annual precipitation	≥ 25 inches	3 41"--Concord Annual Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0 0 events--Concord Weather-NWS
Data available from monitoring rainfall vs. bacteria counts	No risk	0 None DES Beach Program
Source of fecal contamination within 1 mile of beach-other than WWTF or septic fields	1 or more actual sources (4 points)	4 straight pipe discharges directly to beach. Shellfish Program & NPDES
Point sources: industrial waste within 1 mile of beach	None	0 None-Shellfish program
Number of CSOs within 5 miles of beach	None	0 None-Shellfish program
Proximity of WWTF discharge to beach	< 5 miles	3 Hampton WWTF. Shellfish Program & NPDES
Estimated number of septic systems within 1 miles of beach	None	0 None. (Town of Hampton)
Do town ordinances allow domestic animals on this beach during bathing season?	Yes	3 Ordinance to remove fecal matter.(Town Manager)
Marina with boat pumpout facilities within 1 mile of beach	No marina	0 No marinas. CVA
Presence of boat mooring sites within 1 mile of beach	< 10 moorings present or data not available	2 Insufficient data CVA & NH Div. of Ports & Harbors
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4 Little River, N. Hampton 2010 CALM
Mean number of days in bathing season	≥ 50	3 Memorial Day-Labor Day, Avg 99 dys
Average number of people in water at each station during inspections	<5	0 1.7 2014 DES Beach Program
Reported health issues	1-2 issues or data not available	2 1 reports of health issue in 2013 (Town Manager)/DES Beach Program
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	No exceedances	0 0 since 2009--DES data,
Mean time for public notification	< 24 hours	0 <24 hours--DES QAPP
Mean number of days beach affected by advisory during bathing season	<2 days	0 0 (0 days for 5 years) DES Beach Data
Mean high water temperature during swim season	<15.6°C	0 13.11 C 2014 temp DES data
Dogs, birds and wildlife present on beach during inspections	Present at > 50% of inspections	3 83% (5 of 6) of inspections 2014 DES Beach Data
Beach importance to the local economy	Not important to economy	0 Not Important to economy (Town Manager)
Beach importance to public	Beach is considered a highly popular area for tourists or residents	3 Extremely popular (Town Manager)
Explain any other factors at this beach that need to receive greater considerations	0	0 None
305b Listed and a State Park?	No	No

Classification Phase	Points/Tier
Initial Classification Points & Tier	
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to	

Evaluation Score
≥53points: Tier 1
38-52 Points: Tier 2
≤37 points: Tier 3

Sawyer Beach, Rye

A clean sandy beach with point source to north side from Eel Pond

Total Score	Tier
37	3
Final Tier	3

Change due to Impairment & a State Park No

FOR SUMMER 2015

5/26/2015

Average annual precipitation
Number of rainfall events > 3" in the past year
Data available from monitoring rainfall vs. bacteria counts
Source of fecal contamination within 1 mile of beach- other than WWTF or septic fields
Point sources: industrial waste <1 mile of beach
Number of CSOs within 5 miles of beach
Proximity of WWTF discharge to beach
Estimated number of septic systems within 1 miles of beach
Do town ordinances allow domestic animals on this beach during bathing season?
Marina with boat pumpout facilities within 1 mile of beach
Presence of boat mooring sites within 1 mile of beach
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach
Mean number of days in bathing season
Average number of people in water at each station during inspections
Reported health issues
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)
Mean time for public notification
Mean number of days beach affected by advisory during bathing season
Mean high water temperature during swim season
Dogs, birds and wildlife present on beach during inspections
Beach importance to the local economy
Beach importance to public
Explain any other factors at this beach that need to receive greater considerations
305b Listed and a State Park?

Evaluation	Score	Data/Source
≥ 25 inches	3	41"--Concord Annual Weather-NWS
No events	0	0 events--Concord Annual Weather-NWS
Moderate or high detected risks	3	Moderate to High--Eel Pond Outlet DES Beach Program
1 or more actual sources (4 points)	4	PS7,10, and 11 are actual sources PS6, 8, and 9 are potential sources. Shellfish Program
None	0	None Shellfish program
None	0	None-Shellfish program
None	0	Although Wallis Sands WWTF <5mi, it has Wallis Sands SP has a UV facility on site & no advisories ever at Wallis SandsShellfish Program & NPDES
< 25 or data not available	2	Unknown
Yes	3	Animals allowed after beach hours (6pm-8am) (Rye Beach Commission)
No marina	0	No CVA/Port Authority
None	0	No CVA/Port Authority
≤ 2 miles (4 points)	4	Chapel Bk, Unnamed Bk, Little River 2010 CALM
≥ 50	3	Memorial Day-Labor Day, Avg 99 dys
> 15 (4 points)	4	19.5 2014 DES Beach Program
No issues reported	0	NO reported illnesses DES Beach Program
No exceedances	0	None since 2009 DES data,
< 24 hours	0	<24 hours--DES QAPP
<2 days	0	0 (0 advisory days in 5 years) DES Beach Data
<15.6°C	0	15.57 C 2014 DES data
Present at > 50% of inspections	3	100% of inspections 2014 DES Beach Data
Highly important to economy	3	Highly Important Rye Beach Commission
Moderately popular or not assessed	2	Moderately popular Rye Beach Commission
3	3	Eel Pond discharge and significant number of waterfowl at left end of beach.
No	No	Not state park, not listed in 2014

Classification Phase	Points/Tier
Initial Classification Points & Tier	
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to	

Evaluation Score
≥53points: Tier 1
38-52 Points: Tier 2
≤37 points: Tier 3

Seabrook Harbor Beach, Seabrook

Seabrook Harbor is a small beach located on the harbor side of the ocean. It is grassy and

Total Score	Tier
31	3
Final Tier	2

Change due to Impairment & a State Park
Yes

FOR SUMMER 2015

9/24/2014

	Evaluation	Score	Data/Source
Average annual precipitation	≥ 25 inches	3	41"--Concord Annual Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0	0 events- Concord Weather-NWS
Data available from monitoring rainfall vs. bacteria counts	No risk	0	None
Source of fecal contamination within 1 mile of beach-other than WWTF or septic fields	1 or more potential sources or data not available	2	Boat sewage: potential Shellfish Program & NPDES
Point sources: industrial waste within 1 mile of beach	None	0	None-Shellfish program
Number of CSOs within 5 miles of beach	None	0	None-Shellfish program
Proximity of WWTF discharge to beach	< 5 miles	3	Both Seabrook and Hampton WWTF. Shellfish Program & NPDES
Estimated number of septic systems within 1 miles of beach	< 25 or data not available	2	Approx. 6 septics in town. One estimated to be 1/2 mi. from beach. (Seabrook Beach Commission)
Do town ordinances allow domestic animals on this beach during bathing season?	Yes	3	Yes, 6 pm-8 am (Seabrook Beach Commission)
Marina with boat pumpout facilities within 1 mile of beach	Marina with pumpout facility or data not available	2	Hampton Harbor State Marina with pumpout facility. Marina with pumpout facility. CVA
Presence of boat mooring sites within 1 mile of beach	≥ 10 moorings present (4 points)	4	Over 20 moorings adjacent to marina. CVA & NH Div. of Ports & Harbors
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4	Hampton/Seabrook Harbor 2010 CALM
Mean number of days in bathing season	≥ 50	3	Memorial Day-Labor Day, Avg 99 dys
Average number of people in water at each station during inspections	<5	0	<u>0</u> 2014 DES Beach Program
Reported health issues	No issues reported	0	None -Town of Seabrook/DES Beach Program
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	1-5 exceedances or data not available	2	4 (2 in '11 & '12 each) DES data,
Mean time for public notification	< 24 hours	0	<24 hours--DES QAPP
Mean number of days beach affected by advisory during bathing season	<2 days	0	0 days 2014
Mean high water temperature during swim season	<15.6°C	0	13.96 C 2014 temp DES data
Dogs, birds and wildlife present on beach during inspections	Present at > 50% of inspections	3	91% (10 of 11) of inspections 2014 DES Beach Data
Beach importance to the local economy	Not important to economy	0	Not important to the economy Seabrook Beach Committee
Beach importance to public	Beach not considered a popular area for tourists or residents	0	Not popular Seabrook Beach Committee
Explain any other factors at this beach that need to receive greater considerations	0	0	Nothing not already noted above
305b Listed and a State Park?	Yes	Yes	5-P

Classification Phase	Points/Tier
Initial Classification Points & Tier	
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to	

Evaluation Score
≥53points: Tier 1
38-52 Points: Tier 2
≤37 points: Tier 3

Seabrook Town Beach, Seabrook

Beach is a long, sandy beach that is frequented by residents, and vacationers

Total Score	Tier
37	3
Final Tier	3

Change due to Impairment & a State Park No

FOR SUMMER 2015

5/26/2015

Evaluation	Score	Data/Source
Average annual precipitation	≥ 25 inches	3 41"--Concord Annual Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0 0 events--Concord Weather-NWS
Data available from monitoring rainfall vs. bacteria counts	No risk	0 None DES Beach Program
Source of fecal contamination within 1 mile of beach-other than WWTF or septic fields	1 or more actual sources (4 points)	4 Seabrook WWTF discharges 2000 ft. offshore of southern end of beach Shellfish Program & NPDES
Point sources: industrial waste within 1 mile of beach	None	0 None Shellfish program
Number of CSOs within 5 miles of beach	None	0 None--Shellfish program
Proximity of WWTF discharge to beach	< 5 miles	3 Seabrook WWTF discharges 2000 ft. offshore. Shellfish Program & NPDES
Estimated number of septic systems within 1 miles of beach	< 25 or data not available	2 1/2 mi. from beach. (Seabrook Dept. of Public Works)
Do town ordinances allow domestic animals on this beach during bathing season?	Yes	3 Animals allowed before 8 am and after 6 pm (Seabrook Dept. of Public Works)
Marina with boat pumpout facilities within 1 mile of beach	Marina with pumpout facility or data not available	2 Marina with pumpout facility. CVA
Presence of boat mooring sites within 1 mile of beach	≥ 10 moorings present (4 points)	4 Marina CVA & NH Div. of Ports & Harbors
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4 Hampton/Seabrook Harbor 2010 CALM
Mean number of days in bathing season	≥ 50	3 Memorial Day-Labor Day, Avg 99 dys
Average number of people in water at each station during inspections	<5	0 3.5 2014 DES Beach Program
Reported health issues	No issues reported	0 None -Town of Seabrook/DES Beach Program
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	1-5 exceedances or data not available	2 1 in 2014
Mean time for public notification	< 24 hours	0 <24 hours--DES QAPP
Mean number of days beach affected by advisory during bathing season	2-3 days	2 1 advisory lasting 2 days, 2014
Mean high water temperature during swim season	<15.6°C	0 13.96 C 2014 DES data
Dogs, birds and wildlife present on beach during inspections	Present at > 50% of inspections	3 73% (11 of 15)of inspections 2014 DES Beach Data
Beach importance to the local economy	Not important to economy	0 Not economically important Seabrook Beach Committee
Beach importance to public	Moderately popular or not assessed	2 Not extremely popular Seabrook Beach Committee
Explain any other factors at this beach that need to receive greater considerations	0	0 No other factors not noted above
305b Listed and a State Park?	No	0 No Not listed in 2014

Classification Phase	Points/Tier	Evaluation Score
Initial Classification Points & Tier		≥53points: Tier 1 38-52 Points: Tier 2 ≤37 points: Tier 3
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to		

North Hampton State Beach, North Hampton

The beach is partially sandy/rocky. Located in a residential area.

Total Score	Tier
43	2
Final Tier	1

Change due to Impairment & a State Park
Yes

FOR SUMMER 2015

9/24/2014

	Evaluation	Score	Data/Source
Average annual precipitation	≥ 25 inches	3	41"--Concord Annual Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0	0 events--Concord Weather-NWS
Data available from monitoring rainfall vs. bacteria counts	Moderate or high detected risks	3	Little River discharge during wet weather could impact beach (DES Bacteria Source Identification Project)
Source of fecal contamination within 1 mile of beach other than WWTF or septic fields	1 or more actual sources (4 points)	4	2. Little River and Chapel Bk are actual pollution sources. Shellfish Program.
Point sources: industrial waste within 1 mile of beach	None	0	None-Shellfish program
Number of CSOs within 5 miles of beach	None	0	None-Shellfish program
Proximity of WWTF discharge to beach	< 5 miles	3	Wallis Sands WWTF. NPDES
Estimated number of septic systems within 1 miles of beach	None	0	0 Brian Warburton (NHDES)
Do town ordinances allow domestic animals on this beach during bathing season?	No	0	No Brian Warburton (NHDES)
Marina with boat pumpout facilities within 1 mile of beach	No marina	0	No Marina CVA/NH Division of Ports and Harbors
Presence of boat mooring sites within 1 mile of beach	< 10 moorings present or data not available	2	Not Verified CVA/NH Division of Ports and Harbors
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4	2010 CALM Chapel Brook, Unnamed Brook, Little River
Mean number of days in bathing season	≥ 50	3	Memorial Day-Labor Day, Avg 99 dys
Average number of people in water at each station during inspections	<5	0	3.6 2014 DES Beach Program
Reported health issues	1-2 issues or data not available	2	In 2013 1 Reported to DES Beach Program
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	> 5 exceedances (4 Points)	4	4 in '10, 7 in '11, 2 in '12, 11 in '13, 4 in '14 DES data
Mean time for public notification	< 24 hours	0	<24 hours--DES QAPP
Mean number of days beach affected by advisory during bathing season	> 3 days	3	2 advisories lasting 8 days total in 2014
Mean high water temperature during swim season	<15.6°C	0	15.02 C (2014 DES data)
Dogs, birds and wildlife present on beach during inspections	Present at > 50% of inspections	3	61% (11 of 18) inspections 2014 DES Beach Data
Beach importance to the local economy	Highly important to economy	3	Beach is very important to economy Brian Warburton (NHDRED)
Beach importance to public	Beach is considered a highly popular area for tourists or residents	3	Beach is very important to public Brian Warburton (NHDRED)
Explain any other factors at this beach that need to receive greater considerations		3	3 Little River is an identified pollution source to coastal waters. Little River discharges on the left side of the beach.
305b Listed and a State Park?	Yes	Yes	State Park & 4A-P

Classification Phase	Points/Tier
Initial Classification Points & Tier	
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to	

Evaluation Score
≥53points: Tier 1
38-52 Points: Tier 2
≤37 points: Tier 3

Sun Valley Beach, Hampton

Sun Valley is located at the Northern end of Seabrook Beach. It is a sandy beach.

Total Score	Tier
33	3
Final Tier	3

Change due to Impairment & a State Park
No
FOR SUMMER 2015

9/24/2014

	Evaluation	Score	Data/Source
Average annual precipitation	< 25 inches	0	41"--Concord Annual Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0	0 events--Concord Weather-NWS
Data available from monitoring rainfall vs. bacteria counts	No risk	0	None DES Beach Program
Source of fecal contamination within 1 mile of beach-other than WWTF or septic fields	None	0	None
Point sources: industrial waste within 1 mile of beach	None	0	None-Shellfish program
Number of CSOs within 5 miles of beach	None	0	NoneShellfish program
Proximity of WWTF discharge to beach	< 5 miles	3	Seabrook WWTF discharges 2000 ft. offshore. Shellfish Program & NPDES
Estimated number of septic systems within 1 miles of beach	< 25 or data not available	2	1/2 mi. from beach. (Seabrook DPW & Town of Hampton)
Do town ordinances allow domestic animals on this beach during bathing season?	Yes	3	there is an ordinance on waste removal. Town of Hampton
Marina with boat pumpout facilities within 1 mile of beach	Marina with pumpout facility or data not available	2	Marina with pumpout facility. CVA
Presence of boat mooring sites within 1 mile of beach	≥ 10 moorings present (4 points)	4	Marina CVA & NH Div. of Ports & Harbors
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4	Hampton/Seabrook Harbor 2010 CALM
Mean number of days in bathing season	≥ 50	3	Memorial Day-Labor Day, Avg 99 dys
Average number of people in water during each inspection	<5	0	1.0 2014 DES Beach Program
Reported health issues	No issues reported	0	NONE -Town of Hampton/DES Beach Program
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	No exceedances	0	NONE--DES data
Mean time for public notification	< 24 hours	0	<24 hours: DES QAPP
Mean number of days beach affected by advisory during bathing season	<2 days	0	0 days DES Beach Data
Mean high water temperature during swim season	≥ 15.6°C	3	13.83 C 2014 DES temp data
Dogs, birds and wildlife present on beach during inspections	Present at > 50% of inspections	3	83% (5 of 6) inspections 2014 DES Beach Data
Beach importance to the local economy	Moderately important to economy or not assessed	2	Moderately Important Town of Hampton
Beach importance to public	Moderately popular or not assessed	2	Moderately popular Town of Hampton
Explain any other factors at this beach that need to receive greater considerations	2	2	Hampton River could distribute pollutants from the harbor.
305b Listed and a State Park?	No	No	Not on 305b

Classification Phase	Points/Tier	Evaluation Score
Initial Classification Points & Tier		≥53points: Tier 1 38-52 Points: Tier 2 ≤37 points: Tier 3
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to		

Wallis Sands Beach at Wallis Road, Rye
 a long, sandy beach located in a residential area.

Total Score	Tier
44	2
Final Tier	1

Change due to Impairment & a State Park
Yes
FOR SUMMER 2015

9/4/2014

Evaluation	Score	Data/Source
Average annual precipitation	≥ 25 inches	3 41"--Concord Annual Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0 0 events--Concord Weather-NWS
Data available from monitoring rainfall vs. bacteria counts	Moderate or high detected risks	3 Moderate to High--Parson's Creek DES Beach Program
Source of fecal contamination within 1 mile of beach-other than WWTF or septic fields	1 or more actual sources (4 points)	4 AC/Rye/17.3/28, AC/Rye17.3/29, AC/Rye/17.3/5. 2 Actual Direct: WWTF
Point sources: industrial waste within 1 mile of beach	None	0 None Shellfish program
Number of CSOs within 5 miles of beach	> 2	3 4 CSO's in Portsmouth. 2 licensed discharge to S. Mill Pond. (NPDES)
Proximity of WWTF discharge to beach	< 5 miles	3 Wallis Sands SP has a UV facility on site. WWTF Outfall NPDES0020966. Shellfish Program & NPDES
Estimated number of septic systems within 1 miles of beach	< 25 or data not available	2 Estimate 5-10% of homes w/in 1 mile of beach have septic. (Rye Beach Commission)
Do town ordinances allow domestic animals on this beach during bathing season?	Yes	3 Domestic animals allowed but not during the day (Rye Beach Commission)
Marina with boat pumpout facilities within 1 mile of beach	No marina	0 No marina. CVA
Presence of boat mooring sites within 1 mile of beach	< 10 moorings present or data not available	2 CVA/Port Authority gave a total number for Rye, however without exact locations we cannot determine the number
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4 Parson's Creek, Little Harbor 2010 CALM
Mean number of days in bathing season	≥ 50	3 Memorial Day-Labor Day, Avg 99 dys
Average number of people in water during each inspection	> 15 (4 points)	4 19.8 2014 DES Beach Program
Reported health issues	No issues reported	0 None --Town of Rye/DES Beach Program
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	1-5 exceedances or data not available	2 2 (1 in '10, 1 in '12), DES data,
Mean time for public notification	< 24 hours	0 <24 hours--DES QAPP
Mean number of days beach affected by advisory during bathing season	<2 days	0 0 days in 2014
Mean high water temperature during swim season	<15.6°C	0 15.31 C 2014 DES temp data
Dogs, birds and wildlife present on beach during inspections	Present at > 50% of inspections	3 86% (18 of 21) of inspections DES Beach Data
Beach importance to the local economy	Not important to economy	0 Not commercial for town Rye Beach Committee
Beach importance to public	Beach is considered a highly popular area for tourists or residents	3 Highly popular Rye Beach Committee
Explain any other factors at this beach that need to receive greater considerations	2	2 Parson's Creek, a known pollution source, discharges on the right side of the beach.
305b Listed and a State Park?	Yes	Yes Listed on the 305b

Classification Phase	Points/Tier	Evaluation Score
Initial Classification Points & Tier		≥53points: Tier 1
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to		38-52 Points: Tier 2
		≤37 points: Tier 3

Wallis Sands State Park, Rye

The beach area is sandy and local development is residential. Bathhouses are

Total Score	Tier
45	2
Final Tier	1

Change due to Impairment & a State Park
Yes

FOR SUMMER 2015

9/24/2014

Evaluation	Score	Data/Source
Average annual precipitation	≥ 25 inches	3 41"--Concord Annual Weather-NWS
Number of significant (> 3 inches) rainfall events in the past year	No events	0 0 events--Concord Annual Weather-NWS
Data available from monitoring rainfall vs. bacteria counts	No risk	0 None DES Beach Program
Source of fecal contamination within 1 mile of beach other than WWTF or septic fields	1 or more actual sources (4 points)	4 2 actual direct: Wallis Sands WWTF outfall NPDES0020966 and Parson's Creek. 4 Potential indirect sources PS1,2,3,&4. Shellfish Program & NPDES
Point sources: industrial waste within 1 mile of beach	None	0 None Shellfish program
Number of CSOs within 5 miles of beach	> 2	3 4 CSO's in Portsmouth (NPDES). 2 liscenced discharge into South Mill Pond. NPDES & Shellfish program
Proximity of WWTF discharge to beach	< 5 miles	3 On site UV WWTF at the park (Wallis Sands WWTF outfall NP
Estimated number of septic systems within 1 miles of beach	< 25 or data not available	2 4 septsics systems. Brian Warburton (NHDRED)
Do town ordinances allow domestic animals on this beach during bathing season?	No	0 Domestic animals are not allowed on the beach Brian Warburton (NHDRED)
Marina with boat pumpout facilities within 1 mile of beach	No marina	0 No marina. CVA
Presence of boat mooring sites within 1 mile of beach	< 10 moorings present or data not available	2 CVA/Port Authority gave a total number for Rye, however without exact locations we cannot determine the number
Proximity to waterbody that requires a TMDL study for bacteria in the watershed of beach	≤ 2 miles (4 points)	4 Little Harbor, Parson's Creek 2010 CALM
Mean number of days in bathing season	≥ 50	3 Memorial Day-Labor Day, Avg 99 dys
Average number of people in water at during each inspection	> 15 (4 points)	4 42.4 2014 DES Beach Program
Reported health issues	No issues reported	0 None Reported -DRED/DES Beach Program
Historical exceedance of bacteria standards in previous 5 years (geo mean and single sample maximum standards)	1-5 exceedances or data not available	2 1 in 2013 DES data.
Mean time for public notification	< 24 hours	0 <24 hours--DES QAPP
Mean number of days beach affected by advisory during bathing season	<2 days	0 0 days DES Beach Data
Mean high water temperature during swim season	≥ 15.6°C	3 15.92 C 2014 temp DES data
Dogs, birds and wildlife present on beach during each inspection	Present at > 50% of inspections	3 55% (12 of 22) of inspections 2014 DES Beach Data
Beach importance to the local economy	Highly important to economy	3 Highly Important Brian Warburton (NHDRED)
Beach importance to public	Beach is considered a highly popular area for tourists or residents	3 Extremely popular Brian Warburton (NHDRED)
Explain any other factors at this beach that need to receive greater considerations	3	3 WWTF on site. Large # of children and summer camps visit the beach daily during the summer.
305b Listed and a State Park?	Yes	Yes State Park, not listed on 305b

Classification Phase	Points/Tier
Initial Classification Points & Tier	
If this beach was listed as "impaired" or "not supporting for primary contact recreation" in the most recent version of the Consolidated Assessment and Listing Methodology (CALM) AND is a state park, increase Tier 3 beaches to Tier 2 or Tier 2 beaches to Tier 1	

Evaluation Score
≥53points: Tier 1
38-52 Points: Tier 2
≤37 points: Tier 3