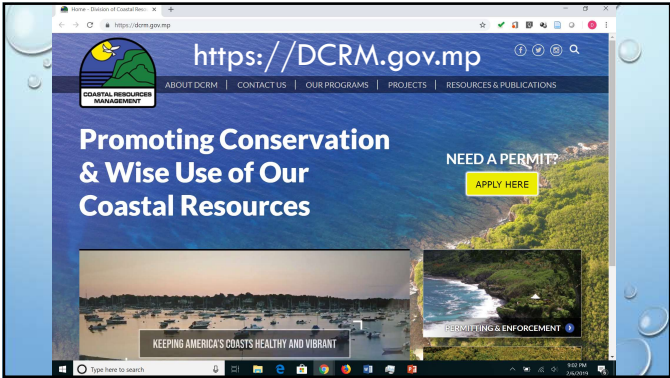
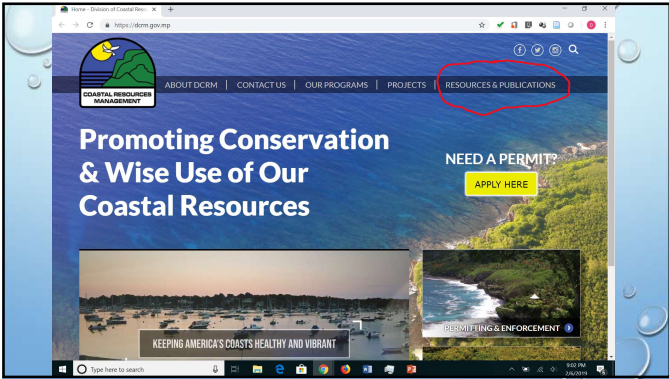


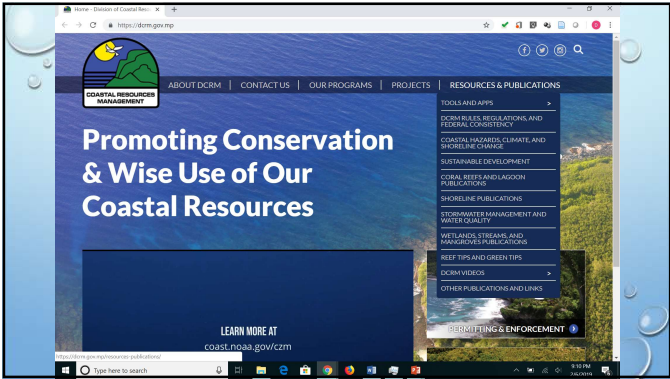
1



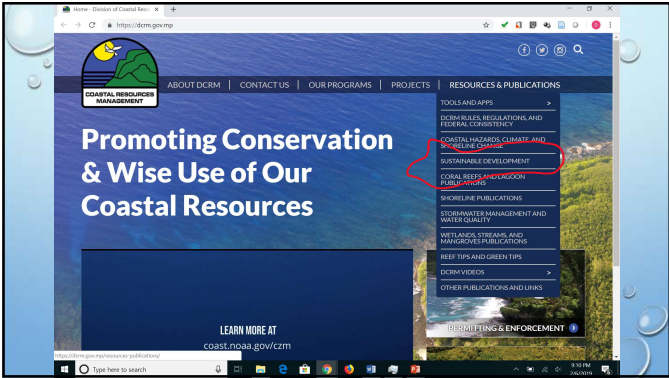
2



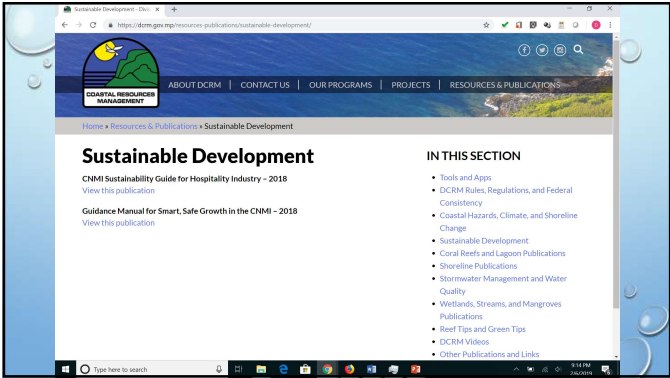
3



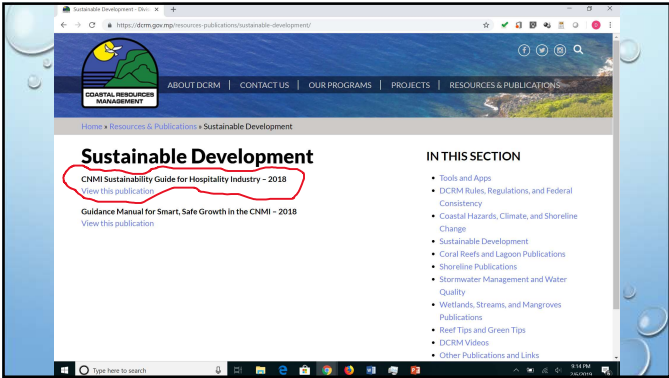
4



5



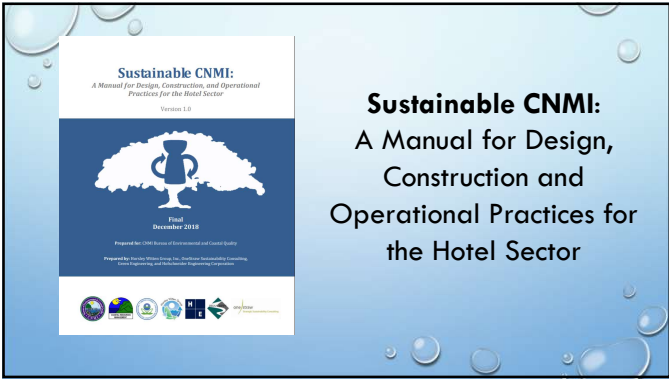
6



7



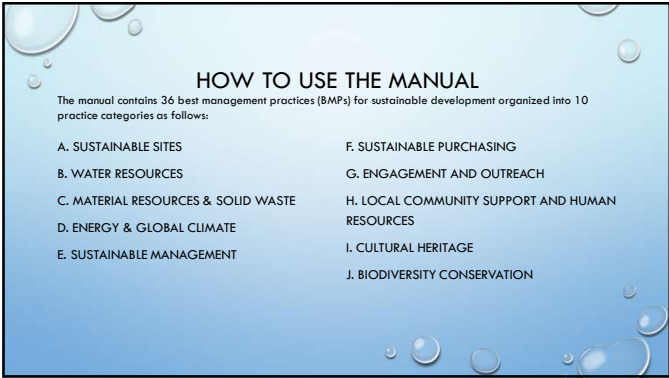
8



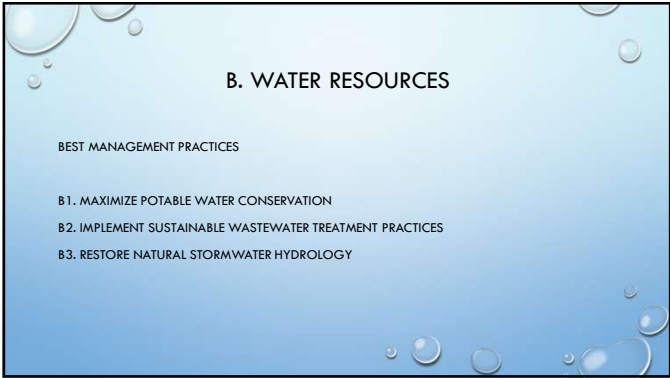
9



10



11



12

PERFORMANCE BENCHMARKS

- FOR EACH BMP, **PERFORMANCE BENCHMARKS** PROVIDE STANDARD TARGETS THAT INDICATE WHEN A BMP HAS BEEN ACHIEVED.
- THERE ARE THREE LEVELS OF PERFORMANCE BENCHMARKS—**BASIC, BETTER, AND BEST**—THAT ARE ASSOCIATED WITH AN INCREASING LEVEL OF PRACTICE.
- THE FIRST LEVEL, **BASIC**, IS THE MINIMUM LEVEL OF IMPLEMENTATION DEEMED “SUSTAINABLE.” HOWEVER, ACHIEVING BEST PERFORMANCE IS HIGHLY ENCOURAGED AND MAY BECOME THE STANDARD IN THE FUTURE.

13

PERFORMANCE BENCHMARKS (CONT.)

- ALL 36 BMPs—UNLESS DEEMED NON-APPLICABLE—MUST BE IMPLEMENTED TO AT LEAST THE BASIC LEVEL OF PERFORMANCE TO BE CONSIDERED CNMI-SUSTAINABLE.

14

B. WATER RESOURCES

BEST MANAGEMENT PRACTICES

- B1. MAXIMIZE POTABLE WATER CONSERVATION
- B2. IMPLEMENT SUSTAINABLE WASTEWATER TREATMENT PRACTICES
- B3. RESTORE NATURAL STORMWATER HYDROLOGY

15

B. Water Resources

Water usage accounts for around 60% of utility bills for most hotels. The high quality of water in the CNMI is a precious resource. Hotels can take steps to conserve water and reduce their water footprint. This includes installing water-efficient fixtures, using low-flow toilets, and implementing a water conservation program. Hotels can also encourage guests to conserve water by providing information on water conservation and encouraging them to reuse towels and linens. Hotels can also implement a water conservation program that includes a water audit, a water conservation plan, and a water conservation program. Hotels can also implement a water conservation program that includes a water audit, a water conservation plan, and a water conservation program.





1. Goals for reducing water usage are established and measured against the baseline.

2. Goals for reducing water usage are established and measured against the baseline.

3. Goals for reducing water usage are established and measured against the baseline.

4. Goals for reducing water usage are established and measured against the baseline.

5. Goals for reducing water usage are established and measured against the baseline.

6. Goals for reducing water usage are established and measured against the baseline.

7. Goals for reducing water usage are established and measured against the baseline.

8. Goals for reducing water usage are established and measured against the baseline.

9. Goals for reducing water usage are established and measured against the baseline.

10. Goals for reducing water usage are established and measured against the baseline.

16

B1. MAXIMIZE POTABLE WATER CONSERVATION

IMPLEMENTATION ACTIONS

- ALL WATER IS METERED, WATER USE / GUEST IS CALCULATED = BASELINE *
- GOALS FOR REDUCING WATER USE IN PLACE, MEASURE VS BASELINE *
- WATER EFFICIENT FIXTURES USED WHEN POSSIBLE **
- TOWEL/LINEN REUSE POLICY IMPLEMENTED *
- STAFF & GUESTS GIVEN GUIDANCE ON MINIMIZING WATER USE *
- WATER USE MEASURED BY CATEGORY (IRRIGATION, POTABLE, NON-POTABLE, ETC.) **
- LEAK DETECTION PERFORMED ANNUALLY *
- RO SYSTEMS PROPERLY MAINTAINED **

17

B1. MAXIMIZE POTABLE WATER CONSERVATION

PERFORMANCE BENCHMARKS: WATER USAGE (GALLONS/PERSON/NIGHT)

- BASIC PRACTICE:** 125 GPN
- BETTER PRACTICE:** < 90 GPN
- BEST PRACTICE:** < 60 GPN

18

3

B1. EXAMPLES

Hyatt Regency Saipan implemented a “Conserve” program whereby in-room linens are laundered on every 3rd day of a guest’s stay. In addition to conserving water, Hyatt estimates a 25% cost savings on laundry expenses. The initiative saves money and has been widely appreciated by hotel guests.

19

B1. EXAMPLES

At Fiesta Resort and Spa-Saipan, guest room and lobby restroom toilet tanks (formerly 4 gallons/flush) were replaced with smaller tanks (now 2 gallons/flush) reducing potable water needs as well as reducing wastewater volumes. In addition, Fiesta installed faucet aerators on guestroom faucets to reduce water flow/pressure.

20

Management and Regulatory Issues

1. [Water Conservation Program](#)

2. [Water Conservation Program](#)

3. [Water Conservation Program](#)

4. [Water Conservation Program](#)

5. [Water Conservation Program](#)

6. [Water Conservation Program](#)

7. [Water Conservation Program](#)

8. [Water Conservation Program](#)

9. [Water Conservation Program](#)

10. [Water Conservation Program](#)

11. [Water Conservation Program](#)

12. [Water Conservation Program](#)

13. [Water Conservation Program](#)

14. [Water Conservation Program](#)

15. [Water Conservation Program](#)

16. [Water Conservation Program](#)

17. [Water Conservation Program](#)

18. [Water Conservation Program](#)

19. [Water Conservation Program](#)

20. [Water Conservation Program](#)

21. [Water Conservation Program](#)

22. [Water Conservation Program](#)

23. [Water Conservation Program](#)

24. [Water Conservation Program](#)

25. [Water Conservation Program](#)

26. [Water Conservation Program](#)

27. [Water Conservation Program](#)

28. [Water Conservation Program](#)

29. [Water Conservation Program](#)

30. [Water Conservation Program](#)

31. [Water Conservation Program](#)

32. [Water Conservation Program](#)

33. [Water Conservation Program](#)

34. [Water Conservation Program](#)

35. [Water Conservation Program](#)

36. [Water Conservation Program](#)

37. [Water Conservation Program](#)

38. [Water Conservation Program](#)

39. [Water Conservation Program](#)

40. [Water Conservation Program](#)

41. [Water Conservation Program](#)

42. [Water Conservation Program](#)

43. [Water Conservation Program](#)

44. [Water Conservation Program](#)

45. [Water Conservation Program](#)

46. [Water Conservation Program](#)

47. [Water Conservation Program](#)

48. [Water Conservation Program](#)

49. [Water Conservation Program](#)

50. [Water Conservation Program](#)

51. [Water Conservation Program](#)

52. [Water Conservation Program](#)

53. [Water Conservation Program](#)

54. [Water Conservation Program](#)

55. [Water Conservation Program](#)

56. [Water Conservation Program](#)

57. [Water Conservation Program](#)

58. [Water Conservation Program](#)

59. [Water Conservation Program](#)

60. [Water Conservation Program](#)

61. [Water Conservation Program](#)

62. [Water Conservation Program](#)

63. [Water Conservation Program](#)

64. [Water Conservation Program](#)

65. [Water Conservation Program](#)

66. [Water Conservation Program](#)

67. [Water Conservation Program](#)

68. [Water Conservation Program](#)

69. [Water Conservation Program](#)

70. [Water Conservation Program](#)

71. [Water Conservation Program](#)

72. [Water Conservation Program](#)

73. [Water Conservation Program](#)

74. [Water Conservation Program](#)

75. [Water Conservation Program](#)

76. [Water Conservation Program](#)

77. [Water Conservation Program](#)

78. [Water Conservation Program](#)

79. [Water Conservation Program](#)

80. [Water Conservation Program](#)

81. [Water Conservation Program](#)

82. [Water Conservation Program](#)

83. [Water Conservation Program](#)

84. [Water Conservation Program](#)

85. [Water Conservation Program](#)

86. [Water Conservation Program](#)

87. [Water Conservation Program](#)

88. [Water Conservation Program](#)

89. [Water Conservation Program](#)

90. [Water Conservation Program](#)

91. [Water Conservation Program](#)

92. [Water Conservation Program](#)

93. [Water Conservation Program](#)

94. [Water Conservation Program](#)

95. [Water Conservation Program](#)

96. [Water Conservation Program](#)

97. [Water Conservation Program](#)

98. [Water Conservation Program](#)

99. [Water Conservation Program](#)

100. [Water Conservation Program](#)

Management and Regulatory Issues

1. [Water Conservation Program](#)

2. [Water Conservation Program](#)

3. [Water Conservation Program](#)

4. [Water Conservation Program](#)

5. [Water Conservation Program](#)

6. [Water Conservation Program](#)

7. [Water Conservation Program](#)

8. [Water Conservation Program](#)

9. [Water Conservation Program](#)

10. [Water Conservation Program](#)

11. [Water Conservation Program](#)

12. [Water Conservation Program](#)

13. [Water Conservation Program](#)

14. [Water Conservation Program](#)

15. [Water Conservation Program](#)

16. [Water Conservation Program](#)

17. [Water Conservation Program](#)

18. [Water Conservation Program](#)

19. [Water Conservation Program](#)

20. [Water Conservation Program](#)

21. [Water Conservation Program](#)

22. [Water Conservation Program](#)

23. [Water Conservation Program](#)

24. [Water Conservation Program](#)

25. [Water Conservation Program](#)

26. [Water Conservation Program](#)

27. [Water Conservation Program](#)

28. [Water Conservation Program](#)

29. [Water Conservation Program](#)

30. [Water Conservation Program](#)

31. [Water Conservation Program](#)

32. [Water Conservation Program](#)

33. [Water Conservation Program](#)

34. [Water Conservation Program](#)

35. [Water Conservation Program](#)

36. [Water Conservation Program](#)

37. [Water Conservation Program](#)

38. [Water Conservation Program](#)

39. [Water Conservation Program](#)

40. [Water Conservation Program](#)

41. [Water Conservation Program](#)

42. [Water Conservation Program](#)

43. [Water Conservation Program](#)

44. [Water Conservation Program](#)

45. [Water Conservation Program](#)

46. [Water Conservation Program](#)

47. [Water Conservation Program](#)

48. [Water Conservation Program](#)

49. [Water Conservation Program](#)

50. [Water Conservation Program](#)

51. [Water Conservation Program](#)

52. [Water Conservation Program](#)

53. [Water Conservation Program](#)

54. [Water Conservation Program](#)

55. [Water Conservation Program](#)

56. [Water Conservation Program](#)

57. [Water Conservation Program](#)

58. [Water Conservation Program](#)

59. [Water Conservation Program](#)

60. [Water Conservation Program](#)

61. [Water Conservation Program](#)

62. [Water Conservation Program](#)

63. [Water Conservation Program](#)

64. [Water Conservation Program](#)

65. [Water Conservation Program](#)

66. [Water Conservation Program](#)

67. [Water Conservation Program](#)

68. [Water Conservation Program](#)

69. [Water Conservation Program](#)

70. [Water Conservation Program](#)

71. [Water Conservation Program](#)

72. [Water Conservation Program](#)

73. [Water Conservation Program](#)

74. [Water Conservation Program](#)

75. [Water Conservation Program](#)

76. [Water Conservation Program](#)

77. [Water Conservation Program](#)

78. [Water Conservation Program](#)

79. [Water Conservation Program](#)

80. [Water Conservation Program](#)

81. [Water Conservation Program](#)

82. [Water Conservation Program](#)

83. [Water Conservation Program](#)

84. [Water Conservation Program](#)

85. [Water Conservation Program](#)

86. [Water Conservation Program](#)

87. [Water Conservation Program](#)

88. [Water Conservation Program](#)

89. [Water Conservation Program](#)

90. [Water Conservation Program](#)

91. [Water Conservation Program](#)

92. [Water Conservation Program](#)

93. [Water Conservation Program](#)

94. [Water Conservation Program](#)

95. [Water Conservation Program](#)

96. [Water Conservation Program](#)

97. [Water Conservation Program](#)

98. [Water Conservation Program](#)

99. [Water Conservation Program](#)

100. [Water Conservation Program](#)

21

B2. IMPLEMENT SUSTAINABLE WASTEWATER TREATMENT PRACTICES



1. [Wastewater Treatment](#)

2. [Wastewater Treatment](#)

3. [Wastewater Treatment](#)

4. [Wastewater Treatment](#)

5. [Wastewater Treatment](#)

6. [Wastewater Treatment](#)

7. [Wastewater Treatment](#)

8. [Wastewater Treatment](#)

9. [Wastewater Treatment](#)

10. [Wastewater Treatment](#)

11. [Wastewater Treatment](#)

12. [Wastewater Treatment](#)

13. [Wastewater Treatment](#)

14. [Wastewater Treatment](#)

15. [Wastewater Treatment](#)

16. [Wastewater Treatment](#)

17. [Wastewater Treatment](#)

18. [Wastewater Treatment](#)

19. [Wastewater Treatment](#)

20. [Wastewater Treatment](#)

21. [Wastewater Treatment](#)

22. [Wastewater Treatment](#)

23. [Wastewater Treatment](#)

24. [Wastewater Treatment](#)

25. [Wastewater Treatment](#)

26. [Wastewater Treatment](#)

27. [Wastewater Treatment](#)

28. [Wastewater Treatment](#)

29. [Wastewater Treatment](#)

30. [Wastewater Treatment](#)

31. [Wastewater Treatment](#)

32. [Wastewater Treatment](#)

33. [Wastewater Treatment](#)

34. [Wastewater Treatment](#)

35. [Wastewater Treatment](#)

36. [Wastewater Treatment](#)

37. [Wastewater Treatment](#)

38. [Wastewater Treatment](#)

39. [Wastewater Treatment](#)

40. [Wastewater Treatment](#)

41. [Wastewater Treatment](#)

42. [Wastewater Treatment](#)

43. [Wastewater Treatment](#)

44. [Wastewater Treatment](#)

45. [Wastewater Treatment](#)

46. [Wastewater Treatment](#)

47. [Wastewater Treatment](#)

48. [Wastewater Treatment](#)

49. [Wastewater Treatment](#)

50. [Wastewater Treatment](#)

51. [Wastewater Treatment](#)

52. [Wastewater Treatment](#)

53. [Wastewater Treatment](#)

54. [Wastewater Treatment](#)

55. [Wastewater Treatment](#)

56. [Wastewater Treatment](#)

57. [Wastewater Treatment](#)

58. [Wastewater Treatment](#)

59. [Wastewater Treatment](#)

60. [Wastewater Treatment](#)

61. [Wastewater Treatment](#)

62. [Wastewater Treatment](#)

63. [Wastewater Treatment](#)

64. [Wastewater Treatment](#)

65. [Wastewater Treatment](#)

66. [Wastewater Treatment](#)

67. [Wastewater Treatment](#)

68. [Wastewater Treatment](#)

69. [Wastewater Treatment](#)

70. [Wastewater Treatment](#)

71. [Wastewater Treatment](#)

72. [Wastewater Treatment](#)

73. [Wastewater Treatment](#)

74. [Wastewater Treatment](#)

75. [Wastewater Treatment](#)

76. [Wastewater Treatment](#)

77. [Wastewater Treatment](#)

78. [Wastewater Treatment](#)

79. [Wastewater Treatment](#)

80. [Wastewater Treatment](#)

81. [Wastewater Treatment](#)

82. [Wastewater Treatment](#)

83. [Wastewater Treatment](#)

84. [Wastewater Treatment](#)

85. [Wastewater Treatment](#)

86. [Wastewater Treatment](#)

87. [Wastewater Treatment](#)

88. [Wastewater Treatment](#)

89. [Wastewater Treatment](#)

90. [Wastewater Treatment](#)

91. [Wastewater Treatment](#)

92. [Wastewater Treatment](#)

93. [Wastewater Treatment](#)

94. [Wastewater Treatment](#)

95. [Wastewater Treatment](#)

96. [Wastewater Treatment](#)

97. [Wastewater Treatment](#)

98. [Wastewater Treatment](#)

99. [Wastewater Treatment](#)

100. [Wastewater Treatment](#)

22

B2. IMPLEMENT SUSTAINABLE WASTEWATER TREATMENT PRACTICES

IMPLEMENTATION ACTIONS:

- POTABLE WATER USE TO CONVEY SEWAGE IS REDUCED BY USING WATER CONSERVING FIXTURES OR USING NON-POTABLE WATER **
- WASTEWATER IS DISPOSED USING A MUNICIPAL OR GOVERNMENT APPROVED TREATMENT SYSTEM IF AVAILABLE *
- IF ABOVE NOT AVAILABLE > SYSTEM ON-SITE TO TREAT WASTEWATER TO HIGH LEVEL POSSIBLE TO ENSURE EFFECTS ON PEOPLE AND ENVIRONMENT ARE MINIMIZED ***
- EDUCATE GUESTS/STAFF ABOUT KEEPING HARMFUL CHEMICALS OUT OF WASTEWATER *

23

B2. IMPLEMENT SUSTAINABLE WASTEWATER TREATMENT PRACTICES

- PERFORMANCE BENCHMARK: % OF NON-POTABLE WATER USE BEING MET WITH POTABLE WATER (USING DRINKING WATER FOR FLUSHING TOILETS OR IRRIGATION)
- BASIC PRACTICE: 75% OR LESS OF NON-POTABLE USE MET W/ POTABLE WATER
- BETTER PRACTICE: 50% OF NON-POTABLE USE MET W/POTABLE WATER
- BEST PRACTICE: 0% OF NON-POTABLE USE MET W/ POTABLE WATER


24

B2. EXAMPLES

At Fiesta Resort and Spa-Saipan, the hotel implemented 2 rainwater underground storage tanks, including a 75,000-gallon tank in Hibiscus Hall and a 65,000-gallon tank on the first floor. Harvested rainwater supplies the hotel's irrigation system including 2 faucets at the Sea Touch facility, 2 faucets in the North Parking area, and 2 faucets on the South Beach side.

25

B3. RESTORE NATURAL STORMWATER HYDROLOGY



26

B3. RESTORE NATURAL STORMWATER HYDOLOGY

IMPLEMENTATION ACTIONS

1. MINIMIZE EROSION OF DISTURBED SOIL DURING ALL PHASES OF CONSTRUCTION *
2. PROVIDE STORMWATER MANAGEMENT OF 1.5" STORM THROUGH REUSE, EVAPOTRANSPIRATION AND/OR INFILTRATION **
3. INTEGRATE STORMWATER MANAGEMENT INTO OTHER SITE OBJECTIVES (IRRIGATION) *
4. CONDUCT LONG-TERM OPERATION AND MAINTENANCE OF STORMWATER INFRASTRUCTURE *

27


B3. RESTORE NATURAL STORMWATER HYDOLOGY

- PERFORMANCE BENCHMARKS: COMMITMENT TO IMPLEMENTATION
- **BASIC PRACTICE:** ALL CONSTRUCTION AND POST-CONSTRUCTION STORMWATER STANDARDS MET AND PRACTICES MAINTAINED
- **BETTER PRACTICE:** EXCEED STORMWATER MANAGEMENT STANDARDS; MAINTENANCE RECORDS AVAILABLE
- **BEST PRACTICE:** MANAGE ADDITIONAL STORMWATER GENERATED OFF-SITE BY OTHERS

28

Green roof installed on top of Bubba Gump Shrimp Company restaurant in Garapan, providing stormwater capture in turf and planters and open space for visitors.

B3. EXAMPLE



29

FUTURE REQUIREMENTS

- IT IS THE INTENT OF BECQ THAT THESE SUSTAINABILITY BMPs WILL ULTIMATELY BE INCORPORATED INTO THE CRM MAJOR SITING PERMIT.

30

