

Part II. Self-Assessment

The US Coast Guard Base Cape Cod (BCC) has completed the required self-assessment and has determined that this federal facility complies with all permit conditions. Measurable Goals identified for Permit Year 15 were attained. Coast Guard Base Cape Cod continues to focus on enhancing the quality of stormwater.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.	Welcome Aboard Packet	Environmental Health & Safety (EHS) / Elizabeth Kirkpatrick	Distribute a Welcome Aboard Package, containing information about the environment and stormwater pollution prevention	New members sign form documenting that they acknowledge the environmental and stormwater pollution prevention programs discussed. Signatures maintained on file in EHS.	Continue with activity
2.	Educational Pamphlet	EHS / Elizabeth Kirkpatrick	Develop educational pamphlet/ fact sheet for distribution	Stormwater pollution prevention pamphlet developed and provided to incoming personnel and distributed at training events.	Continue with activity
3.	Annual Awareness Training Presentation	EHS / Elizabeth Kirkpatrick	Conduct Stormwater Pollution Prevention presentation to all Facilities Engineering Department (FED) and Air Station personnel	Stormwater Pollution Prevention and SPCC presentations were provided to USCG FED personnel on 14 June 2016 and USCG Air Station personnel on 21 June 2017. Incoming personnel are provided Stormwater Pollution Prevention and SPCC training.	Continue with activity

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.	Coordinate with other agencies on Joint Base Cape Cod	EHS / Elizabeth Kirkpatrick	The Environmental and Energy Committee, which has representatives from all Commands on JBCC, will add to meeting agenda stormwater pollution prevention initiatives, share SWPPP information and support each other in implementation of the plan.	The Environmental and Energy Committee met quarterly in PY15. In addition, the Housing Advisory Council (HAC) represents all Commands on JBCC and has members whom live on Base meets monthly. Water quality and stormwater pollution prevention initiatives for base housing are passed through the HAC.	Continue with activity
2.	Trash pickup volunteer day	Housing / Marcel Mousseau	Reduce litter and other solids from storm drains and waterways. Coordinate efforts with general public to cleanup public lands around watersheds	Spring cleanup conducted the third week in May 2017. Approximately 20 personnel participated in event. Organized additional curbside pick-up of bulk items from housing units April 2017.	Continue with activity
3.	BCC household hazardous waste collection	EHS / Dan Morisset	Provide specific dates/times for BCC residents to properly dispose of household hazardous waste	Advertised Barnstable County's household hazardous waste collection events.	Continue with activity

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.	Map storm drains	EHS / Elizabeth Kirkpatrick	Develop storm drain map	Map developed. Latest addition 1/30/03.	Revise as needed to include 2016 MS4 mapping requirements.
2.	Illicit Discharge Detection and Elimination Program	EHS / Elizabeth Kirkpatrick	Develop Illicit Discharge Detection and Elimination Program	Previously included in a prior version of the EMS. Incorporated in all NEPA reviews.	Include document as required of the 2016 MS4 Stormwater Management Program.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.	Stormwater assessment at Pre-Construction Meetings	EHS/ Elizabeth Kirkpatrick	Pre-construction meetings held between Facility Engineering, contractors, COR (Contracting Officer Representative) and EHS	Pre-construction meetings are held formally or informally project dependent. Ensure environmental and safety issues are covered.	Continue with activity
2.	Stormwater assessment as part of NEPA review.	EHS/ Elizabeth Kirkpatrick	Identify stormwater impacts and requirements at the time of the NEPA Review.	All projects were assessed during NEPA review. No projects required a Stormwater Construction Permit in this reporting year.	Continue with activity

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.	Post-construction run-off minimization	EHS / Elizabeth Kirkpatrick	Develop a process to identify post-construction run-off to prevent/ minimize impacts to water quality	Restoration of property is part of the contract, i.e. erosion control. The CG assigns a COR officer to all construction projects. The COR will not sign off on completion of the project (and payment is withheld) unless restoration of the property has occurred. This is part of the COR job requirement. No exterior construction projects occurred this PY.	Continue with activity

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1.	EMS procedures for good housekeeping requirements	EHS / Elizabeth Kirkpatrick	Develop procedures in the EMS to address good housekeeping requirements.	Procedures will be included in the MS4 2016 Stormwater Management Program and is referred to in the 2016 EMS revision. Good housekeeping requirements are also identified in the BCC MSGP Stormwater Pollution Prevention Plan.	Continue with activity

2.	Employee Training	EHS / Elizabeth Kirkpatrick	Conduct annual training for all personnel to provide updates of any BMPs and new requirements while performing their jobs.	Refer to Item 1.3	Continue with activity
3.	Catch basin cleaning	FED / Dave Riordan	Identify critical basin for cleaning and clean within in a two-year cycle.	Monitoring was conducted PY15; all catch basins were in fair to good condition.	Continue with activity
4.	Street Cleaning	FED / Dave Riordan	Sweep all city streets at least annually. Sweeping begins after the last snow/ frost and continues until completion.	On going	Continue with activity
5.	Salt/ sanders maintenance	FED / Dave Riordan	Perform annual maintenance on salt/ sander to ensure proper function and set the dispersing rate to minimize dumping of loads.	On going	Continue with activity

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<Not Applicable>>

Part IV. Summary of Information Collected and Analyzed

The US Coast Base Cape Cod is committed to water quality. Although sustainable management of natural resources has been a priority for Base Cape Cod for many years, the NPDES Phase II Small MS4 Permit Program contributed to the evolution of successful management techniques and shift in cultural awareness. No data collected during Permit Year 15 requires further elaboration.

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2017 through March 31, 2018)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	Vacant
Annual program budget/expenditures **	(\$)	n/a
Total program expenditures since beginning of permit coverage	(\$)	n/a
Funding mechanism(s) (General Fund, Enterprise, Utility, etc.)		n/a

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	800
Stormwater management committee established	(y/n)	y
Stream teams established or supported	(# or y/n)	n/a
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	n/a
Shoreline cleaned since beginning of permit coverage	(mi.)	n/a
Household Hazardous Waste Collection Days		
<ul style="list-style-type: none"> ▪ days sponsored ** 	We utilize Barnstable County's collection program	(#)
<ul style="list-style-type: none"> ▪ community participation ** 		(# or %)
<ul style="list-style-type: none"> ▪ material collected ** 		(tons or gal)
School curriculum implemented	(y/n)	n/a

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
Regulatory Mechanism Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					X
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management					X
Accompanying Regulation Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					X
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management					X

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	43
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	0%
▪ CADD	(%)	100%
▪ GIS	(%)	100%
Outfalls inspected/screened **	(# or %)	30%
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	100%
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	1
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	1
% of population on sewer	(%)	100%
% of population on septic systems	(%)	0%

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	0
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	n/a
Site inspections completed **	(# or %)	0
Tickets/Stop work orders issued **	(# or %)	0
Fines collected **	(# and \$)	0
Complaints/concerns received from public **	(#)	0

Post-Development Stormwater Management

	(Preferred Units)	Response
Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
Site inspections (for proper BMP installation & operation) completed **	(# or %)	0
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	n
Low-impact development (LID) practices permitted and encouraged	(y/n)	y

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	as needed
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	as needed
Qty of structures cleaned **	(#)	0
Qty. of storm drain cleaned **	(%, LF or mi.)	50LF
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	.5 ton
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Beneficial use on site

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	n/a
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	federal facility basin
• Disposal cost**	(\$)	n/a
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	0
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	n
• % Structures cleaned with clam shells **	(%)	0
• % Structures cleaned with vector **	(%)	0

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	6/yr
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	6/yr
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	12 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	beneficial use onsite
Annual Sweeping Costs		60 man hours for 20 miles
• Annual budget/expenditure (labor & equipment)**	(\$)	n/a
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	n/a
• Disposal cost**	(\$)	n/a
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1 owned
• Vacuum street sweepers owned/leased	(#)	1 owned
• Vacuum street sweepers specified in contracts	(y/n)	0
• % Roads swept with rotary brush sweepers **	%	100
• % Roads swept with vacuum sweepers **	%	0 (sidewalks only)

Manual control spreaders used **	(y/n or %)	no
Zero-velocity spreaders used **	(y/n or %)	no
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	+100 lbs/ mile
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	-10 lbs/mi
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	no
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	yes

Water Supply Protection

Stormwater outfalls to public water supplies eliminated or relocated	# or y/n	n
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	n
<ul style="list-style-type: none"> Treatment units induce infiltration within 500-feet of a wellhead protection area 	# or y/n	n