

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 is in compliance with all permit conditions. Measurable Goals identified for Permit Year 12 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 12 (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 distributed at various functions. | Continue with activity |

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| 3. | Water Quality Report (Consumer Confidence Report) | EHS / Elizabeth Kirkpatrick | Include Stormwater Pollution Prevention paragraph in annual Water Quality Report | Article about stormwater included in the 2013 Water Quality Report, which was published and distributed in the summer of 2014 to 3,000 staff, military personnel and residents on Joint Base Cape Cod (JBCC - formerly MMR). Reports are also offered to arriving personnel as part of the Welcome Aboard Package/ discussion. | Continue with activity |
| 4. | Annual Awareness Training Presentation | EHS / Elizabeth Kirkpatrick | Conduct Stormwater Pollution Prevention presentation for all USCG personnel | Stormwater Pollution Prevention presentation was not provided to all USCG personnel this year. Industrial Stormwater Pollution Prevention training was provided to applicable personnel. SPCC Training and Hazardous Communication Training were provided to all personnel. | 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 12 (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 Quality Committee, which has representatives from all Commands on JBCC, will add to meeting agenda (as appropriate) water quality and storm water pollution prevention initiatives, share SWPPP information and support each other in implementation of the plan. | The Environmental Quality Committee did not meet in PY12. However, the Housing Advisory Council (HAC) represents all Commands on JBCC and has members whom live on Base meets monthly. The USCG Environmental Protection Specialist is a member of the HAC and incorporates water quality and stormwater pollution prevention initiatives. The HAC meets monthly. | Continue with activity |
| 2. | Trash pickup volunteer day | Housing / Terry Krout | Reduce litter and other solids from storm drains and water ways. Coordinate efforts with general public to clean up public lands around watersheds | Fall clean up conducted the third week in October 2014. Spring clean up conducted the third week in April 2014. Approximately 120 personnel participated in both events. Organized additional curbside pick- up of bulk items from housing units April 2014 and October 2014. | Continue with activity |

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| 3. | Upper Cape Cod regional household hazardous waste collection | EHS / Elizabeth Kirkpatrick | Volunteer at the Upper Cape Cod household hazardous waste collection. Over 50 tons of hazardous waste diverted from contaminating water quality. | BCC no longer volunteers in the quarterly Upper Cape Cod regional household hazardous waste collection program; however, BCC maintains an extensive hazardous waste collection and recycling program for our residents and personnel. | Continue with localized household hazardous waste collection. Effective May 2015 BCC will be holding 4 Household HazWaste collection events per years. |
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3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 12 (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 |
| 2. | Illicit discharge instruction | EHS / Elizabeth Kirkpatrick | Develop illicit discharge instruction prohibiting illicit discharge into storm drains | Previously included in a prior version of the EMS. Incorporated in all NEPA reviews. | Include instruction in the revision to Stormwater Pollution Prevention Plan upon issuance of new NPDES permits. |
| 3. | Illicit discharge detection | EHS / Elizabeth Kirkpatrick | Plan to detect and address illicit discharges | There is minimal concern for illicit discharges as no unauthorized connections can be made due to the nature of this federal facility. Nonetheless, outfalls are inspected quarterly for signs of illicit discharge. | Maintain inspection activity and resulting documentation. |

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|----|-----------------|-----------------------------------|--|---|------------------------|
| 4. | Auto Hobby Shop | EHS / Elizabeth Kirkpatrick | Open an Auto Hobby Shop for use by residents as a location for free self service maintenance of vehicles to minimize illicit discharges from vehicle maintenance and improper disposal of waste oils, gasoline, antifreeze and solvents. | The Auto Hobby Shop opened in May 2009. The shop is fully contained indoors and no floor drains exist in the facility. The manager is trained in Hazardous Waste Management and spill prevention. The facility is inspected weekly as part of our pollution prevention program. | Continue with activity |
|----|-----------------|-----------------------------------|--|---|------------------------|

4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 12 (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, COTR (Contracting Officer Technical Representative) and EHS | Pre-construction meetings are held formally or informally project dependant. Ensure all 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 12 (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 COTR officer to all construction projects. The COTR 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 COTR job requirement. | 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 12 (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 included in the Stormwater Pollution Prevention Plan. Previously included in a prior version of the EMS. | Continue with activity |

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|----|---------------------------|---------------------------------|--|--|------------------------|
| 2. | Employee Training | EHS / Elizabeth Kirkpatrick | Conduct annual training for all personnel to provide them updates of any BMPs and new requirements for them while performing their jobs. | Industrial Stormwater Pollution Prevention training was provided to applicable personnel. SPCC Training and Hazardous Communication Training were provided to all personnel. | Continue with activity |
| 3. | Catch basin cleaning | FED / Bob Burt and Dave Riordan | Identify critical basin for cleaning and clean within in a two-year cycle. | Monitoring was conducted PY12; all catch basins were in fair to good condition. Six basins were cleaned in PY12. | 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 |

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|----|---|-----------------------------|--|--|---|
| 6. | Upper Cape Cod household hazardous waste collection | EHS / Elizabeth Kirkpatrick | Volunteer at the Upper Cape Cod household hazardous waste collection. Over 50 tons of hazardous waste diverted from contaminating water quality. | BCC no longer volunteers in the quarterly Upper Cape Cod regional household hazardous waste collection program; however, BCC maintains an extensive hazardous waste collection and recycling program for our residents and personnel, which are available 6-days per week. | Continue with localized household hazardous waste collection. |
|----|---|-----------------------------|--|--|---|

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 12 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, 2014 through March 31, 2015)

Programmatic

| | (Preferred Units) | Response |
|---|-------------------|----------|
| Stormwater management position created/staffed | (y/n) | y |
| 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 %) | 3000 |
| 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 | | |
| ▪ days sponsored ** | (#) | 6 days/ week |
| ▪ community participation ** | (# or %) | n/a |
| ▪ material collected ** | (tons or gal) | 2.5 tons |
| 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 %) | 100% |
| 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) | 1 |
| Illicit connections removed (Since beginning of permit coverage) | (#); and (est. gpd) | all |
| % 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 %) | n/a |
| Tickets/Stop work orders issued ** | (# or %) | 0 |
| Fines collected ** | (# and \$) | 0 |
| Complaints/concerns received from public ** | (#) | 0 |
| | | |
| | | |

Post-Development Stormwater Management

| | | |
|--|----------|------|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control | (%) | 100% |
| Site inspections (for proper BMP installation & operation) completed ** | (# or %) | 100% |
| 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 ** | (#) | 6 |
| Qty. of storm drain cleaned ** | (%, LF or mi.) | 100LF |
| Qty. of screenings/debris removed from storm sewer infrastructure ** | (lbs. or tons) | Unknown due to contract |
| Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) ** | (location) | Unknown due to contract |

| | | |
|---|-------------------------|------------------|
| Basin Cleaning Costs | | |
| • Annual budget/expenditure (labor & equipment)** | (\$) | n/a |
| • Hourly or per basin contract rate ** | (\$/hr or \$ per basin) | federal facility |
| • 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) | 1.8 tons |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) ** | (location) | beneficial use onsite |
| Annual Sweeping Costs | | 40 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) |

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|--|-------------|-----------------------------|
| Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination) | | |
| ▪ Fertilizers | (lbs. or %) | No reduction |
| ▪ Herbicides | (lbs. or %) | Increase from previous year |
| ▪ Pesticides | (lbs. or %) | |
| Integrated Pest Management (IPM) Practices Implemented | (y/n) | yes |
| | | |

| | (Preferred Units) | Response |
|---|---|---|
| <p>Average Ratio of Anti-/De-Icing products used **</p> <p>(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)</p> | % NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand Due to the steep grade in the vicinity of the single drinking water well protection area salt is applied as minimally feasible for safety. | 90% 10% Based on MADOT 2010 Road Salt and Sand study BCC implemented Pre-Wetting and near elimination of Sand to align more with State Environmental goals. |
| Pre-wetting techniques utilized ** | (y/n or %) | yes |
| Manual control spreaders used ** | (y/n or %) | no |
| Zero-velocity spreaders used ** | (y/n or %) | no |

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|--|--------------------|---|
| Estimated net reduction or increase in typical year salt/chemical application rate | (±lbs/ln mi. or %) | -100 lbs/ mile even with record breaking winter conditions Jan-Mar 2015 |
| 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

| | | |
|---|----------|---|
| Storm water 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 | |