Municipal Separate Storm Sewer System (MS4) Program Plan

Prepared by
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Water Program Manager
JBLE-Langley
27 Jun 16
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1 Introduction

This document represents Joint Base Langley Eustis-Langley’s (JBLE-Langley) plan to meet the requirements of 9VAC 25-890-40 “General Virginia Stormwater Management Program (VSMP) Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems.” This Program Plan ensures compliance with the General Permit during Year 1 (July 1, 2016 – June 30, 2017).

JBLE-Langley will review and assess existing stormwater management operations and policies against the General Permit requirements including the six minimum control measures and the Total Maximum Daily Limit (TMDL) special conditions requirements. Based on that review, JBLE-Langley will develop an appropriate and cost effective Program Plan with the goal of minimizing stormwater pollution to the maximum extent practicable (MEP). This Program Plan will outline how JBLE-Langley will implement and enforce this Plan. The 633d Civil Engineer Squadron (633 CES) Environmental Element is the organization primarily responsible for this Plan’s implementation.

2 MS4 Program Plan

This section of MS4 Program Plan describes how JBLE-Langley will implement and demonstrate compliance with each of the six stormwater minimum control measures (MCM) listed in Section II B of the Municipal Separate Storm Sewer System (MS4) General Permit VAR04. For each MCM, the Program Plan addresses program goals (now and into the future), requirements of the permit, and program elements for compliance. Table 1 summarizes the schedule included in this plan.
<table>
<thead>
<tr>
<th>Program Requirement</th>
<th>Permit Reference</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Priority Water Quality Issues (Minimum Control Measure 1 – Public Education and Outreach on Stormwater Impacts)</td>
<td>Section II B c (1)</td>
<td>12 months</td>
</tr>
<tr>
<td>Illicit Discharge Procedures – (Minimum Control Measure 3 – Illicit Discharge Detection and Elimination)</td>
<td>Section II B 3</td>
<td>24 months</td>
</tr>
<tr>
<td>Individual Residential Lot Special Criteria (Minimum Control Measure 5 – Post Construction Stormwater Management in New Development and Development on Prior Developed Lands)</td>
<td>Section II B 5 (1) (d)</td>
<td>N/A</td>
</tr>
<tr>
<td>Operator-Owned Stormwater Management Inspection Procedures (Minimum Control Measure 5 – Post Construction Stormwater Management in New Development and Development on Prior Developed Lands)</td>
<td>Section II B 5</td>
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<tr>
<td>Identification of Locations Requiring SWPPPs (Minimum Control Measure 6 – Pollution Prevention/Good Housekeeping for Municipal Operations)</td>
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<td>Training Schedule and Program – (Minimum Control Measure 6 – Pollution Prevention/Good Housekeeping for Municipal Operations)</td>
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<td>24 months</td>
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</table>
In keeping with Environmental Protection Agency (EPA) guidance, JBLE-Langley defines “public” as the resident and employee population (to include contractors) within the fence line of the installation.

JBLE-Langley MS4 Public Education Outreach Program has three primary goals:

- Increasing target audience knowledge about the steps that can be taken to reduce stormwater pollution, placing priority on reducing impacts to impaired waters and other local water pollution concerns;
- Increasing target audience knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications; and
- Implementing a diverse program with strategies that are targeted towards audiences most likely to have significant stormwater impacts.

MS4 Public Education and Outreach Plan, as required by the General Permit, emphasizes three high-priority water quality issues. These priorities were selected because they are currently the most pressing stormwater-related impacts that JBLE-Langley encounters. The following describes the high priorities selected, the rationale behind the selection, the target audience and the estimated audience size:

1. Mobile Car Washers and Proper Wash Procedures

   **Rationale:** JBLE-Langley has experienced mobile car washers on base. Mobile washers come on base and wash vehicles in parking lots. In an effort to discourage this type of vehicle washing, and to promote education, JBLE-Langley will develop material to distribute to the public on the importance of washing vehicles in the designated locations.

   **Target Audience:** JBLE-Langley residents and employees

   **Estimated Audience Size:** Approximately 10,000 people

2. Controlling Dog/Horse Wastes at the JBLE-Langley Horse Stables and Residences

   **Rationale:** JBLE-Langley housing is managed through a private real estate company, Hunt Communities. The residents are authorized to have pets on the premises and are required to sign a pet addendum, although Hunt does not keep track how many pets are on site. Hunt has installed Pet Waste disposal stations around the residential property to facilitate the proper disposal. Maintenance personnel collect any waste and restock bags daily. All residents will be briefed on the importance of disposing waste and how it affects stormwater.
JBLE-Langley horse stable is privatized through the Saddle Club for authorized personnel to keep their horses. There are currently 13 horses that pasture on 15 acres. Stable bedding and manure are contained under cover. JBLE-Langley is considering options to recycle manure for composting. Members will be briefed on good housekeeping practices to minimize the amount of animal wastes exposed to stormwater.

*Target Audience:* JBLE-Langley Saddle Club members and dog owners

*Estimated Audience Size:* Approximately 10 Owners and 1,430 Residents

3. Spill Reduction

*Rationale:* Although reportable spills have decreased on JBLE-Langley, Langley has recognized the need for more direct training on reducing and prevention through developing additional control measures. JBLE-Langley will develop and distribute additional training material.

*Target Audience:* JBLE-Langley employees

*Estimated Audience Size:* Approximately 10,000 people

**Relevant Messages/Outreach Material Summary - Section II B 1 c (3)**

JBLE-Langley will utilize a combination of relevant messages and outreach materials to effectively educate target audiences about high priority areas. The following techniques will be used in combination to adequately educate audiences:

**Websites:** JBLE-Langley will plan to develop a website for training and awareness. JBLE-Langley will plan to develop and update a website that includes current information about environmental regulations and the Installation’s environmental programs. The goal is to provide installation personnel with up-to-date information regarding pollution prevention and to provide employees with links to other educational environmental websites. Base employees will be notified via email when new articles are available on the website.

**Email Messages:** Mass emails are an effective mechanism to get messages to a large group of employees. Mass emails can be sent to the entire workforce, select organizations and even residents. Email messages can provide guidance on any stormwater-related topic that a target audience may need.

**Outreach Brochures:** JBLE-Langley will prepare brochures concerning potential impacts to stormwater, and steps that personnel can take to minimize pollutants in stormwater runoff. The goal is to disseminate the information about stormwater impacts to as many Base employees and contractors as possible.
**Training Programs:** Basic stormwater training is available for all base personnel, including those that handle Municipal Solid Wastes, Recyclable Materials, Hazardous Materials, Hazardous Wastes, Non-Hazardous Wastes, Universal Wastes, and Hazardous Substances that have the potential to contaminate stormwater runoff at JBLE-Langley.

Courses are provided in an online format through the Environmental, Safety and Occupational Health Training Network website (www.esohtn.com) and will be required for all installation personnel. Please see the Annual Training Plan in MCM 6 on page 18 for information on the training program.

**Stormwater Pollution Prevention Team (SWPPT):** The team meets to discuss any potential sources of pollution that could reasonably impact the quality of stormwater discharges from JBLE-Langley. The team will discuss improving management practices to reduce the potential for contamination of stormwater discharges. These meetings provide an opportunity to get feedback from Group Environmental Manager (GEMs), who act as additional eyes and ears. It also provides an opportunity to provide additional education to the workforce in the field on stormwater issues.

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**Public Participation with Education and Outreach Development - Section II B 1 c (4)**

JBLE-Langley encourages and appreciates employee feedback during education and outreach development. This is accomplished in two primary ways: (1) the Environmental Management System (EMS) Cross-Functional Team (CFT), and (2) through the Stormwater Pollution Prevention Team.

**Environmental Management System Cross-Functional Team:** JBLE-Langley encourages and appreciates employee feedback during education and outreach development. This is accomplished with the EMS CFT. The CFT is responsible for identifying, categorizing and prioritizing JBLE-Langley’s environmental aspects and impacts as well as developing and implementing objectives, targets and programs to address the significant environmental aspects.

The CFT consists of representatives from all areas of the base, which allows for diverse feedback and opinions.

Annually, JBLE-Langley plans to reach out to the CFT and the SWPPT for feedback on stormwater-related education and outreach. This will address what they believe is the most pressing stormwater issues the installation faces and where the Environmental Element should focus educational efforts.

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**Outreach Plan - Section II B 1 c (5)**

The following chart depicts JBLE-Langley anticipated Annual Outreach Plan for Permit Year (PY) 1 (July 1, 2016 – June 30, 2017):
### Table 2: Outreach Plan for PY 1

<table>
<thead>
<tr>
<th>High Priority</th>
<th>Target Audience</th>
<th>Outreach Goal</th>
<th>Outreach type and Timeframes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horse Stable/Dog Waste</td>
<td>Approximately 1,430 residents (potential Dog Owners) and 10 Horse Owners</td>
<td>20% of audience annually</td>
<td>Possible meeting with Horse Owners and/or Brochure for Dog Owners/Horse Owners</td>
</tr>
<tr>
<td>Spill Reduction</td>
<td>Approximately 10,000 people</td>
<td>20% of target audience</td>
<td>Training Material</td>
</tr>
<tr>
<td>Mobile Car Wash</td>
<td>Approximately 10,000 people</td>
<td>20% of target audience annually</td>
<td>Brochure and/or Mass email to base and residents</td>
</tr>
</tbody>
</table>

### Annual Review of Program Outreach Effectiveness - Section II B 1 c (6)

JBLE-Langley will annually evaluate the effectiveness of its Public MCM 1 program materials and delivery mechanisms to reach target audiences. JBLE-Langley will evaluate the education and outreach program for:

1. Appropriateness of the high-priority stormwater issues;
2. Appropriateness of the selected target audiences for each high-priority stormwater issue;
3. Effectiveness of the message or messages being delivered; and
4. Effectiveness of the mechanism or mechanisms of delivery employed in reaching the target audiences.

JBLE-Langley will address any weak areas with a revised MS4 Program Plan submittal to the Virginia Department of Environmental Quality (VDEQ).

### Annual Reporting Requirements - Section II B 1 g

JBLE-Langley will include the following information in each annual report:

1. A list of the education and outreach activities conducted during the reporting period for each high-priority water quality issue, the estimated number of people reached, and an estimated percentage of the target audience or audiences that were reached; and

2. A list of the education and outreach activities that will be conducted during the next reporting period for each high-priority water quality issue, the estimated number of people that will be reached, and an estimated percentage of the target audience or audiences that will be reached.
### MCM 2: Public Involvement and Participation

The Environmental Element currently hosts several successful public participation programs. JBLE-Langley feels it is important to engage with the public, participate in local events, and promote participation with the surrounding communities. JBLE-Langley senior leadership encourages public involvement, and these efforts are strongly supported.

#### Public Notices - Section II B 2 a (1)

It is JBLE-Langley’s policy to comply with all federal, state and local public notice requirements.

#### Maintaining an Updated MS4 Program Plan - Section II B 2 a (2a)

JBLE-Langley will maintain an updated MS4 Program Plan. Updates to the Program Plan will be completed at a minimum once per year by the Environmental Element in compliance with Table 1 of the General Permit. The most up-to-date version of the plan will be posted on the JBLE-Langley website.

#### Posting Annual Reports - Section II B 2 a (2b)

Annual reports will also be posted on the JBLE-Langley website within 30 days of submittal to the VDEQ and retain copies of annual reports online for the duration of the General Permit.

#### Public Comment on Reappplication of MS4 Program Plan - Section II B 2 a (2c)

Prior to applying for renewed permit coverage, JBLE-Langley will notify the public and provide a copy of received comments on the proposed MS4 Program Plan that will be submitted with the registration statement. JBLE-Langley will also address how the comments were received and considered in the development of the MS4 Program Plan. This notification will be made at least three (3) months in advance of reapplication to ensure adequate time for public comment and consideration.

#### Public Participation - Section II B 2 b

JBLE-Langley plans to communicate through various media including websites, the base newspaper as well as frequent interactions with community groups.

JBLE-Langley participates in a Secretary of the Air Force Program to partner with our local public and private neighbors. The Public-Public, Public-Private, Partnership Program (P4) seeks to identify and develop opportunities to share resources, increase efficiency and improve effectiveness of operational, educational and recreational programs. The JBLE P4 program is currently focused on the Virginia Peninsula. As the program matures, there may be opportunities for broader partnerships.
JBLE-Langley will participate, through promotion, sponsorship, or other involvement, in a minimum of four local events/activities annually. The activities shall be aimed at increasing public participation to reduce stormwater pollutant loads; improve water quality; and support local restoration and clean-up projects, programs, groups, meetings, or other opportunities for public involvement.

JBLE-Langley plans to use mass emails, webpage announcements and newspaper announcements to promote local programs and events. Events such as Clean the Bay Day, America Recycles Day, Earth Day, and the Annual Base Clean-up Day will be promoted.

### Annual Reporting Requirements - Section II B 2 d

JBLE-Langley will include the following information in each annual report:

1. A web link to the MS4 Program Plan and annual report; and
2. Documentation of compliance with the public participation requirements of this section.
MCM 3: Illicit Discharge Detection and Elimination (IDDE)

This control measure requires a process to identify and eliminate non-stormwater discharges to the installation’s MS4. Illicit discharges are those not made entirely of stormwater and are otherwise not allowed. Examples of illicit discharges are domestic and industrial wastewater (cross-connections), vehicle wash water, and fuel spills. Examples of non-stormwater discharges that are allowable include air conditioner condensate, runoff from irrigation, water from fire hydrant and potable water storage tank flushing.

Stormwater Sewer System Map - Section II B 3 a

JBLE-Langley has a Geographic Information System (GIS) Department with mapping capabilities. The GIS staff maintains the stormwater sewer system map, which is available upon request.

An updated map of the stormwater sewer system and all stormwater outfalls is required, based on a review of current GIS data. JBLE-Langley has programmed a project to have an updated stormwater sewer system map and information table completed within 48 months of permit coverage.

Illicit Discharge Prohibition - Section II B 3 b

Illicit discharges are prohibited via Air Force Instruction (AFI) 32-1067, Water and Fuel Systems. At any time when unauthorized non-stormwater discharges or illicit connections to the stormwater system are identified, the Environmental Element shall be notified.

IDDE Procedures - Section II B 3 c

Procedures to detect, identify, and address unauthorized non-stormwater discharges, including illegal dumping, will be developed and implemented in PY 1. A dry weather screening is conducted on non-industrial outfalls during the annual Industrial Stormwater Comprehensive Site Compliance Evaluation (CSCE).

Public IDDE Reporting - Section II B 3 d

Information concerning how to report any pollution and/or illicit discharge will be distributed throughout the installation. The phone numbers for JBLE-Langley Fire and Emergency Services will be utilized as the hotline numbers, as they are the installation’s First Responders. The phone lines are manned 24 hours per day, 7 days per week.
JBLE-Langley will include the following information in each annual report:

(1) A list of any written notifications of physical interconnection given by JBLE-Langley to other MS4s;
(2) The total number of outfalls screened during the reporting period, the screening results, and detail of any follow-up actions necessitated by the screening results; and
(3) A summary of each investigation conducted by the operator of any suspected illicit discharge. The summary must include: (i) the date that the suspected discharge was observed, reported, or both; (ii) how the investigation was resolved, including any follow-up, and (iii) resolution of the investigation and the date the investigation was closed.
MCM 4: Construction Site Stormwater Runoff Control

JBLE-Langley has Section 01 12 00 Environmental Management Special Conditions and Simplified Acquisition of Base Engineer Requirements (SABER) General Provisions for Stormwater Management (SWM) and Erosion and Sediment Control (ESC) that are integral components of design, construction, maintenance, and management of the Base’s facilities and operations. The primary regulatory driver for JBLE-Langley Environmental Management Special Conditions is the VSMP regulations (9 VAC 25-870), the General VPDES Permit for Discharges of Stormwater from Construction Activities (9 VAC 25-880/VAR10), Erosion and Sediment Control Law (9 VAC 25-840), EISA Section 438, Engineering Technical Letter (ETL) 14-1, and the MS4 permit (VAR04).

JBLE-Langley will update the Environmental Management Special Conditions and SABER General Provisions for SWM and ESC to comply with all regulatory requirements.

Legal Authorities/Oversight Requirements - Section II 4 e (1)

The following lists JBLE-Langley legal authorities:

- VDEQ VSMP permit (9VAC 25-880)
- VDEQ Erosion and Sediment Control regulations (9VAC 25-840)
- Part II Technical Criteria (9VAC25-870-40)
- AFI 32-1067 Water and Fuel Systems, 4 Feb 15
- AFI 32-1032 Planning and Programming Appropriated Fund, Maintenance, Repair, and Construction Projects, 24 Sep 15
- Section 01 12 00 Environmental Management Special Conditions
- SABER General Provisions
- Engineering Technical Letter (ETL) 14-1, Construction and Operation and Maintenance Guidance for Stormwater Systems
- Unified Facilities Criteria (UFC) 1-200-02, High Performance and Sustainable Building Requirements
- Unified Facilities Criteria (UFC) 3-210-10, Low Impact Development

Written Plan Review Requirements - Section II 4 e (2)

JBLE-Langley primarily uses contractors for land disturbing activities such as construction, deconstruction/demolition, and renovation projects.

JBLE-Langley Engineering Flight utilizes all legal authorities to comply with VDEQ SW/E&SC requirements regarding design and construction plans.

The following is an excerpt from both the SABER General Provisions and Section 01 12 00 Environmental Management Special Conditions for ESC and SWM that is included with all contracts:
“1.6. WATER QUALITY: [Include if there is going to be exterior material laydown, construction or excavation].

1.6.1. EROSION AND SEDIMENT CONTROL: All construction operations shall comply with the requirements of the Virginia Erosion and Sediment Control Act. The contractor shall provide erosion control fencing (silt) to prevent site runoff. Black or brown silt fence color is approved. No other color will be accepted. Hay bales must not be used for erosion control and inlet protection from stormwater run-off. The Contractor shall submit alternate methods of protection to the Contracting Officer at the preconstruction conference for review and approval. The Contracting Officer will notify the Contractor of his/her decision prior to issuance of Notice to Proceed (NTP).

1.6.2. For all projects disturbing >2,500 sf of land but <10,000 sf, an Erosion and Sediment Control (E&SC) Plan shall be prepared IAW Virginia Department of Environmental Quality (VDEQ) Erosion & Sediment Control Handbook. Two copies of plans and two full sized sets of drawings will be submitted to the 633 CES/CEIE Water Program Manager for review and approval.

1.6.3. For all projects disturbing >10,000 sq. ft. The E&SC Plan must be approved by the Virginia Department of Environmental Quality (VDEQ) Regional Office prior to initiating groundbreaking activities. A copy of the E&SC Plan shall be forwarded to 633 CES/CEIE (Water Program Manager).

1.6.4. Dewatering. Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited unless managed by appropriate controls.

1.6.5. STORMWATER PERMIT. If >1 acre (43,560 sq. ft.) is to be disturbed as part of the project, the contactor shall obtain a Stormwater General Construction Permit from VDEQ. A Stormwater Pollution Prevention Plan (SWPPP), minimally consisting of an E&SC Plan, Stormwater Management Plan and a Pollution Prevention Plan shall be prepared to support the stormwater permit; a copy of the SWPPP shall also be forwarded to 633 CES/CEIE Water Program Manager. The Contractor, as the operator of construction sites, is solely responsible for applying for, obtaining, funding and complying with the terms of the permit. A copy of the permit shall be forwarded to 633 CES/CEIE Water Program Manager. In addition, a copy of the final permit must be posted on site, prior to the construction start date. Instructions and forms for the General Permit for Discharges of Stormwater from Construction Activities can be found on the VDEQ’s Stormwater Management website: http://www.deq.virginia.gov/Programs/Water/StormwaterManagement/VSMPPermits.aspx

1.6.6. Industrial Area Land Disturbance. For any industrial area expansions (i.e., construction activities, including clearing, grading, and excavating activities) that commence after 1 Jul 14, the contractor must provide the 633 CES/CEIE Water Program Manager the information and calculations used to determine the nutrient and sediment loadings discharged from the expanded land area prior to the land being developed, and the measures and controls that were employed to meet the no net increase of stormwater nutrient and sediment load as a result of the expansion of the industrial activity. Any land disturbance that is exempt from permitting under the VPDES construction stormwater general permit regulation (9VAC25-880) is exempt from this requirement.”
JBLE-Langley Special Conditions are attached to every contract and requires Contractors to adhere to VDEQ regulations.

**Inspection Procedures - Section II B 4 e (4)**

A 633 CES certified stormwater/E&SC inspector will be responsible for ensuring construction contracts in place at JBLE-Langley comply with all construction stormwater pollution prevention requirements. At a minimum, the following will be conducted by a certified inspector:

- Verify construction site specific Stormwater Pollution Prevention Plans (SWPPPs) are developed for each required construction project prior to the contractor performing work;
- Oversee contractors to verify that stormwater discharges from construction sites are being controlled, limited, and monitored per the requirements of VPDES General Permit No. VAR10; and
- Perform follow-up inspections to verify that regular site inspections are conducted and documented by each contractor and kept on file at the construction site, as required. The general permit specifies that the site inspections be conducted at a frequency of:
  - At least once every five business days; or
  - At least once every 10 business days no later than 48 hours following a measurable storm event. In the event that a measurable storm event occurs when there are more than 48 hours between business days, the inspection shall be conducted no later than the next business day.

AF Form 1477 is used for construction site inspections performed by CES inspectors. The form is attached in Appendix A.

**Progressive Compliance and Enforcement Program - Section II B 4 e (5)**

JBLE-Langley will develop a progressive compliance and enforcement program during PY 2.

**Roles and Responsibilities - Section II B 4 e (6)**

A 633 CES certified stormwater/E&SC inspector will be responsible for ensuring construction contracts in place at JBLE-Langley comply with all construction stormwater pollution prevention requirements. JBLE-Langley will provide an inspector for training and to test for certification during PY 2.
JBLE-Langley will develop a spreadsheet to track and submit the following information in each annual report:

(1) The total number of regulated Land-Disturbing Activities (LDA);
(2) Total number of acres disturbed;
(3) Total number of inspections conducted; and
(4) A summary of the enforcement actions taken, including the number of and type during the reporting period.
MCM 5: Post-construction Stormwater Management

VSMP regulations, especially the new Technical Criteria Part II B, and the federal Energy Independence and Security Act (EISA) Section 438 requirements have reinforced the importance of an effective post-construction stormwater management program. Permanent stormwater management facilities are used to limit/reduce pollutant loads and to maintain or restore predevelopment hydrology of the property with regard to temperature, rate, volume and duration of flow. JBLE-Langley understands that these functional Best Management Practices (BMPs) require long-term inspection and maintenance. JBLE-Langley is planning a project to survey all BMPs on the Base and develop procedures to maintain them according to VDEQ standards.

Legal Authorities - Section II B 5 d (1)

The following lists JBLE-Langley legal authorities:

- VDEQ VSMP permit (9VAC 25-880)
- VDEQ Erosion and Sediment Control regulations (9VAC 25-840)
- Part II Technical Criteria (9VAC25-870-40)
- AFI 32-1067 Water and Fuel Systems, 4 Feb 15
- AFI 32-1032 Planning and Programming Appropriated Fund, Maintenance, Repair, and Construction Projects, 24 Sep 15
- Section 01 12 00 Environmental Management Special Conditions
- SABER General Provisions
- Engineering Technical Letter (ETL) 14-1, Construction and Operation and Maintenance Guidance for Stormwater Systems
- Unified Facilities Criteria (UFC) 1-200-02, High Performance and Sustainable Building Requirements
- Unified Facilities Criteria (UFC) 3-210-10, Low Impact Development

Written Procedures for SWM Facility Design/Installation - Section II B 5 d (2)

JBLE-Langley requires all Construction contractors to adhere to VDEQ regulations and JBLE-Langley legal authorities in Section II B 5 (d) (1) above. Engineering Technical Letter (ETL) 14-1, from the Air Force Civil Engineer Center (AFCEC) is intended to provide procedures for construction of SWM facilities and is used as guidance. A copy of US Air Force ETLs can be found at: [http://wbdg.org/ccb/AF/AFETL/etl_14_1.pdf](http://wbdg.org/ccb/AF/AFETL/etl_14_1.pdf)

Inspection Policy for SWM Inspections - Section II B 5 d (3)

Post-construction inspections shall be made in accordance with the manufacturer’s and/or engineer’s recommendation. Inspections are accomplished on post-construction SWM facilities by CES inspectors prior to final acceptance of the site from the contractor. At a minimum, JBLE-Langley will inspect Operator Owned SWM facilities at least annually using guidance in ETL 14-1 and the MS4 Permit. JBLE-Langley will inspect Private Owned SWM facilities once every five years.
Private Owned SWM Facilities - Section II B 5 d (4)

JBLE-Langley residential housing is privatized. BLB Privatized Housing LLC., is the Lessee whereas; Hunt Communities (HC) is the real estate company who manages residential housing for JBLE-Langley and off-base Bethel Housing. In accordance with the Air Force Lease of Property Permit, condition 11 states the Lessee shall be responsible for the operation and maintenance of the storm systems. The company is also responsible for any stormwater construction and post construction design. A copy of the lease agreement will be provided in Appendix D.

Operator Owned SWM Facilities - Section II B 5 d (5)

Written procedures for inspections of Operator-Owned SWM facilities are outlined in ETL 14-1, *Construction and Operations and Maintenance Guidelines for Stormwater Systems*. Maintenance to SWM facilities will be performed as required.

Roles and Responsibilities - Section II B 5 d (6)

The 633 CES inspectors will inspect construction sites and the Environmental Element will provide oversight on inspections.

Annual Reporting - Section II B 5 e

In each Annual Report, JBLE-Langley will submit a spreadsheet database submittal that includes the following:

1. The stormwater management facility type;
2. A general description of the facility's location, including the address or latitude and longitude;
3. The acres treated by the facility, including total acres, as well as the breakdown of pervious and impervious acres;
4. The date the facility was brought online (MM/YYYY). If the date is not known, the operator shall use June 30, 2005, as the date brought online for all previously existing stormwater management facilities;
5. The sixth order hydrologic unit code (HUC) in which the stormwater management facility is located;
6. The name of any impaired water segments within each HUC listed in the 2010 § 305(b)/303(d) Water Quality Assessment Integrated Report to which the stormwater management facility discharges;
7. Whether the stormwater management facility is operator-owned or privately-owned;
8. Whether a maintenance agreement exists if the stormwater management facility is privately owned; and
9. The most recent inspection of the stormwater management facility. JBLE-Langley will also annually track and report the total number of inspections completed and, when applicable, the number of enforcement actions taken to ensure long-term maintenance.
Specialty shops perform maintenance of roads, grounds, and the storm sewer collection system on JBLE-Langley. The control measure focuses on pollution prevention (P2) and good housekeeping to improve the quality of stormwater.

Written Procedures for Operations and Maintenance Activities - Section II B 6 f (1)

In compliance with MS4 requirements, JBLE-Langley will develop procedures within PY 1 to minimize or prevent pollutant discharge from: (i) operations such as road, street, and parking lot maintenance; (ii) equipment maintenance; and (iii) the application, storage, transport, and disposal of pesticides, herbicides, and fertilizers. These written procedures are designed to:

- Prevent illicit discharges;
- Ensure the proper disposal of waste materials, including landscape wastes;
- Prevent the discharge of municipal vehicle wash water into the MS4 without authorization under a separate VPDES permit;
- Prevent the discharge of wastewater into the MS4 without authorization under a separate VPDES permit;
- Require implementation of best management practices when discharging water pumped from utility construction and maintenance activities;
- Minimize the pollutants in stormwater runoff from bulk storage areas (e.g., salt storage, topsoil stockpiles) through the use of best management practices;
- Prevent pollutant discharge into the MS4 from leaking municipal automobiles and equipment; and
- Ensure that the application of materials, including fertilizers and pesticides, is conducted in accordance with the manufacturer's recommendations.

High Priority Facilities Analysis- Section II B 6 f (2)

JBLE-Langley will assess all facilities on Base for their potential of discharging pollutants and identify those that have a high potential for chemicals or other materials to be discharged in stormwater and develop SWPPPs. Many facilities addressed in the MS4 permit are already covered under JBLE-Langley’s General Industrial Permit #VAR052285 such as the recycling center, pesticide storage facility, and sand storage facility.

Nutrients and Turf Management - Section II B 6 f (3)

JBLE-Langley shall have a Nutrient Management Plan developed by a certified turf and landscape nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia on all lands owned or operated by JBLE-Langley where nutrients are applied to a contiguous area greater than one acre. NOTE: Refer to “(c)” in Annual Reporting (Section II B 6 g) for PY 1 requirement.
JBLE-Langley will continue to develop an annual training plan in PY 1 including a schedule of training events that ensures implementation of the training requirements as follows:

Table 3: Annual Training Requirements

<table>
<thead>
<tr>
<th>Training Requirements</th>
<th>Selected Audience</th>
<th>Training Program(s) &amp; Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Training for applicable field personnel in the recognition and reporting of illicit discharges</td>
<td>JBLE-Langley employees</td>
<td>Illicit Discharge Specific Stormwater Training – being developed-biennial</td>
</tr>
<tr>
<td>(2) Training for applicable employees in good housekeeping and pollution prevention practices that are to be employed during road, street, and parking lot maintenance</td>
<td>Pavements/Equip Shop Grounds Maintenance Contractor</td>
<td>Stormwater training-biennial</td>
</tr>
<tr>
<td>(3) Training for applicable employees in good housekeeping and pollution prevention practices that are to be employed in and around maintenance and public works facilities.</td>
<td>JBLE-Langley employees</td>
<td>Stormwater training-biennial</td>
</tr>
<tr>
<td>(4) Ensure that employees, and require that contractors, who apply pesticides and herbicides are properly trained or certified in accordance with the Virginia Pesticide Control Act (§ 3.2-3900 et seq. of the Code of Virginia).</td>
<td>Golf Course Maintenance, Pest Management Supervisor, Entomology</td>
<td>Virginia Department of Agriculture Required every two years</td>
</tr>
<tr>
<td>(5) Ensure that employees and contractors serving as plan reviewers, inspectors, program administrators, and construction site operators obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.</td>
<td>JBLE-Langley Inspectors, Engineers Construction Contractors</td>
<td>VDEQ SW/ESC Training</td>
</tr>
<tr>
<td>(6) The operator shall ensure that applicable employees obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.</td>
<td>JBLE-Langley employees</td>
<td>VDEQ SW/ESC Training</td>
</tr>
<tr>
<td>(7) Training for applicable employees</td>
<td>JBLE-Langley employees employed at Bethel Park</td>
<td>Stormwater training-biennial</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>------------------------------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>in good housekeeping and pollution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>prevention practices that are to be</td>
<td></td>
<td></td>
</tr>
<tr>
<td>employed in and around recreational</td>
<td></td>
<td></td>
</tr>
<tr>
<td>facilities.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| (8) Emergency response employees     | All applicable JBLE-Langley employees with spill | JBLE-Langley Spill Prevention |
| shall have training in spill responses.| responsibilities                                    | Control and Countermeasure   |
|                                      |                                                 | training- annually           |

**Annual Reporting - Measurable Goals - Section II B 6 g**

JBLE-Langley will include the following information in each annual report:

- A summary report on the development and implementation of the daily operational procedures;
- A summary report on the development and implementation of the required SWPPPs;
- A summary report on the development and implementation of the turf and landscape nutrient management plans that includes:
  
  (a) The total acreage of lands where turf and landscape nutrient management plans are required; and  
  (b) The acreage of lands upon which turf and landscape nutrient management plans have been implemented; and  
  (c) During PY 1, JBLE-Langley shall identify all applicable lands where nutrients are applied to a contiguous area of more than one acre and provide a latitude and longitude for each piece of land; and

- A summary report on the required training, including a list of training events, the training date, the number of employees attending training and the objective of the training.
Total Maximum Daily Load (TMDL) Special Conditions Compliance

JBLE-Langley shall develop a Chesapeake Bay TMDL Action Plan. This action plan will be submitted with the PY 2 Annual Report.

TMDL Special Conditions Compliance Other Than Chesapeake Bay TMDL

JBLE-Langley is not currently subject to any TMDL waste load allocations (WLA) outside of the Chesapeake Bay TMDL at this time.
## Future Program Plan Updates Schedule

### Table 4: MS4 Program Plan Schedule

<table>
<thead>
<tr>
<th>Program Requirement</th>
<th>Permit Reference</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Updated TMDL Action Plans (TMDLs approved before July 2008) – (Special Conditions for Approved Total Maximum Daily Loads (TMDL) Other Than Chesapeake Bay)</td>
<td>Section I B</td>
<td>To be completed by June 30, 2018 and submitted with the 2018 Annual Report</td>
</tr>
<tr>
<td>Chesapeake Bay TMDL Action Plan – (Special Condition for Chesapeake Bay TMDL)</td>
<td>Section I C</td>
<td>To be completed by June 30, 2018 and submitted with the 2018 Annual Report</td>
</tr>
<tr>
<td>Stormwater Management Progressive Compliance and Enforcement – (Minimum Control Measure 4 – Construction Site Stormwater Runoff Control)</td>
<td>Section II B 5</td>
<td>To be completed by June 30, 2018 and submitted with the 2018 Annual Report</td>
</tr>
<tr>
<td>Daily Good Housekeeping Procedures (Minimum Control Measure 6 – Pollution Prevention/Good Housekeeping for Municipal Operations)</td>
<td>Section II B 6 a</td>
<td>To be completed by June 30, 2018 and submitted with the 2018 Annual Report</td>
</tr>
<tr>
<td>Other TMDL Action Plans for applicable TMDLs approved between July 2008 and June 2013 – (Special Conditions for Approved Total Maximum Daily Loads (TMDL) Other Than Chesapeake Bay)</td>
<td>Section I B</td>
<td>To be completed by June 30, 2019 and submitted with the 2019 Annual Report</td>
</tr>
<tr>
<td>Outfall Map Completed – (MCM 3 – Illicit Discharge Detection and Elimination) – Applicable to new boundaries identified as “urbanized” areas in the 2010 Decennial Census</td>
<td>Section II B 3 a (3)</td>
<td>To be completed by June 30, 2020 and submitted with the 2020 Annual Report</td>
</tr>
<tr>
<td>SWPPP Implementation – (MCM 6 – Pollution Prevention/Good Housekeeping for Municipal Operations)</td>
<td>Section II B 6 b (3)</td>
<td>To be completed by June 30, 2020 and submitted with the 2020 Annual Report</td>
</tr>
<tr>
<td>NMP Implementation – (MCM 6 – Pollution Prevention/Good Housekeeping for Municipal Operations)</td>
<td>Section II B 6 b (3)</td>
<td>To be completed by June 30, 2021 and submitted with the 2021 Annual Report</td>
</tr>
</tbody>
</table>
4 Signed Certification Statement in accordance with 9VAC 25-890-40

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Brenda W. Cook, Deputy Base Civil Engineer

Date 13 May 14
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Appendix A: JBLE-Langley Inspection Sheet (AF Form 1477)
Appendix B: JBLE-Langley Environmental Management Special Conditions Section 01 12 00
Appendix C: JBLE-Langley SABER General Provisions
Appendix D: BLB Privatized Housing Lease Agreement
Appendix E: Saddle Club Lease Agreement
Appendix F: Maps of Privatized On-Base Housing
Appendix G: Maps of Privatized Off-Base Bethel Housing Area
Appendix H: Maps of Bethel Reservoir Boundary
Appendix I: Maps of Bethel Park and Fam Camp
Appendix J: JBLE-Langley Easement Agreement with York County for Bethel Reservoir