



City of Petersburg, Virginia

MS4 General Permit: VAR040013

2017 Annual Report

Prepared by:

Department of Public Works

Summary of Existing Program Plan Compliance, Activities, Changes, and Plans for the Next Reporting Period

| Minimum Control Measure | BMP | Program Description | Applicable Measurable Goals | Progress toward Achieving Measurable Goals (Permit Year 4) | Assessment of Appropriateness, Changes, and/or Steps to Address Any Deficiencies | Summary of Activities Planned for Next Reporting Cycle (Permit Year 5) |
|--|---------------------------------|--|---|--|---|---|
| 1. Public Education and Outreach on Stormwater Impacts | 1.1 Stormwater Public Education | Develop a citywide public education program. | IIB.1.a. Implement program IIB.1.b. Design program IIB.1.c. Update program IIB.1.d. MS4 coordination IIB.1.e. Program evaluation IIB.1.f. MS4 Program Plan IIB.1.g. MS4 Annual Report | <p>The Planning Department and the Public Works Department continue to use EPA guidance: "Getting in Step" as a source to begin to distribute the message for a public education and outreach program. The City utilizes multiple diverse strategies aimed at various target audiences to increase stormwater knowledge and reduce stormwater pollution – including SWPPP brochures to educate contractors on methods to reduce stormwater pollution (see Appendix A).</p> <p>The City of Petersburg continues to keep the public informed on the progress of its Stormwater Utility (SWU) Program. This process included DPW facilitating and participating in the educating the public during Public Information (PI) Meetings. Please also refer to Appendix A for stormwater brochures passed out during City-wide Clean Ups, Earth Day Activities, Ward Meetings and PI Meetings. Pet waste pick-up signs in Central Park increase individual knowledge about reducing stormwater pollution.</p> <p>DPW continues to provide many informational items (see Appendix A) and local stormwater items to the City's website to educate the public on the City's SWU Program including: SWU Frequently Asked Questions, SWU PowerPoint Presentation Shown at Ward/Council Meetings and PI Meetings, SWU Ordinance & Rate Resolution, and Fee Credit Manuals. Also refer to Appendix A for a sample webpage on "Fertilizer Tips". The Planning Department and the DPW often coordinate with the "Friends of the Lower Appomattox" (FOLAR), Crater District Planning Commission and Richard Bland College to sponsor citywide clean up events.</p> | <p>To address the "Litter" high-priority issue of the plan, the City has been working on a NFWF Grant-funded "Walkable Watershed" project with the James River Association (JRA) to reach the students of Robert E. Lee Elementary School –engaging that school's surrounding community. Although Robert E. Lee classrooms have not yet been visited, by engaging the surrounding community we hope to have reached all the 5th grade students at that school (55 students, 17% of the target audience).</p> <p>While social media has yet to be fully implemented to address the "Bacteria" high priority issue, the City's public signage in place reaches Central Park visitors (approximately 1,200 visitors, 7% of the total target audience in the plan).</p> <p>To reach out to the target audience for the "Maintenance" high-priority issue, the City and JRA attempted to hold a SWM Facilities Workshop; however, there was basically no response to the invitations. Therefore, no private SWM Facility owners were reached (0% of the target audience) during this Permit Year.</p> <p>The City's on-going financial crisis has hindered our efforts in addressing Permit Year 4 requirements. As the City continues to recover, every effort will be made to meet current and future requirements going forward.</p> | <p>To address the "Litter" high-priority issue of the plan, the City will attempt to reach at least 165 students, 50% of the target audience.</p> <p>To reach out to the target audience for the "Bacteria" high-priority issue, the City will attempt to reach at least 8,308 followers, 50% of the target audience in the plan.</p> <p>To address the "Maintenance" high-priority issue of the plan, the City will attempt to reach at least 38 owners, 50% of the target audience.</p> |

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|--|--|--|--|--|--|---|
| 2. Public Involvement/ Participation | 2.1 Stormwater Public Involvement | Promote public involvement in preventing pollution of stormwater runoff. | IIB.2.a. Public involvement IIB.2.b. Public participation IIB.2.c. MS4 Program Plan (written procedures) IIB.2.d. MS4 Annual Report (weblinks, documentation) | The MS4 Program Plan was updated, submitted, and generally approved by DEQ in December 2015. This updated Program Plan and the current MS4 Annual Report are posted to the City's Stormwater Management Webpage for public review and comment. Weblinks for the Program Plan and Annual Report, respectively, are as follows: " http://www.petersburgva.gov/DocumentCenter/View/785 ", and " http://www.petersburgva.gov/DocumentCenter/View/778 ". There were no City-wide Cleanups held in Permit Year 4; however, there was one held in November 2017 which will be reported in the following Permit Year. The City has continued to coordinate and participate in the household drop-off recycling program, the metals/white goods program, the safe garage program, and any waste tire cleanup through local efforts and our membership in the Central Virginia Waste Management Authority. | The City is also currently securing a contract with an external consultant. If requested, documentation of the executed contract will be submitted to DEQ. | With the combined efforts of internal and external resources, the City plans to undertake all applicable 60 month tasks and activities outlined under Section II.B.2 of the New Permit. |
| | 2.2 TMDL Implementation Plan Participation | If a TMDL Implementation Plan is developed, the City of Petersburg will consider participating in the process. | IB.1. MS4 Program Plan (TMDL Action Plan) IB.2.a. Legal authorities IB.2.b. Additional management practices IB.2.c. Public education/outreach and employee training programs IB.2.d. MS4 Operator-owned facilities (pollutants) IB.2.e. TMDL Action Plan assessment IB.3. Analytical methods (monitoring) IB.4. Participation (implementation plan development) IB.5. Annual reporting (TMDL Action Plan) IB.6. BMP's (next permit term – reapplication) IB.7. Date to achieve WLA's (reapplication) | The City has received DEQ approval for its Chesapeake Bay TMDL Action Plan on January 6, 2016. The Local TMDL Action Plan was initially submitted to DEQ on November 19, 2015. Approval of the Local TMDL Action Plan is still pending based on the City's response to DEQ review comments. (DEQ finalized MS4 guidance for WLA calculations for local TMDL's on November 21, 2016). | The City is also currently securing a contract with an external consultant. If requested, documentation of the executed contract will be submitted to DEQ. | With the combined efforts of internal and external resources, the City plans to undertake all applicable 60 month tasks and activities outlined under Section I of the New Permit. |
| 3. Illicit Discharge Detection and Elimination | 3.1 Develop Storm Sewer System Map | Develop storm sewer mapping showing the location of all outfalls and the names and location of all waters of the U.S. that receive discharges from those outfalls. | IIB.3.a. Updated storm sewer map | DPW has continued to make efforts to update the storm sewer and outfall map. DPW has determined that there are no physically connected downstream MS4s that require written notification. | The City is currently securing a contract with an external consultant. If requested, documentation of the executed contract will be submitted to DEQ. | With the combined efforts of internal and external resources, the City plans to undertake all applicable 60 month tasks and activities outlined under Section II.B.3 of the New Permit. |
| | 3.2 Illicit Discharge Ordinance | Develop an ordinance to prohibit all non-stormwater discharges into the MS4. | IIB.3.b. Prohibit non-stormwater discharges through legal mechanism | The ordinance was adopted April 6, 2010 and can be viewed or downloaded from the City's website. The City makes every effort to enforce the ordinance as applicable. | The current BMP is appropriate for addressing the measurable goals outlined in Section II of the General Permit. | The City plans to undertake all applicable 60 month tasks and activities outlined under Section II.B.3b of the New Permit. |

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|-----------------------------|--|---|---|---|---|--|
| | 3.3 Illicit Discharge Detection and Elimination (IDDE) Program | Detect, identify, and address unauthorized discharges to the MS4. | <p>IIB.3.c. Written procedures</p> <p>IIB.3.d. Public reporting of illicit discharges (promote, publicize, and facilitate)</p> <p>IIB.3.e. MS4 Program Plan (procedures)</p> <p>IIB.3.f. Annual reporting (MS4 interconnection, number/screening of outfalls, illicit discharge investigation)</p> | <p>The City uses the "Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments" as guidance along with other resources to develop local procedures to detect and address illicit discharges; and continues to make progress in the creation of maps and other tools necessary for outfall reconnaissance. There have been 0 outfall screenings during Permit Year 4 pending the development of these necessary tools.</p> <p>In Permit Year 4, 14 Illicit discharge reports were filed (all documented by DEQ). Corrective action was documented in the reports – no water quality samples were collected. See Appendix B for summaries of these reports. DPU also continues the Inflow and Infiltration (I&I) program to find and address sanitary sewer connections to the storm sewer. Smoke testing, line video inspection and other methods help locate sanitary connections to the storm sewer system and remedy those cross connections. Flow metering also locates segments of sanitary sewer with I&I problems. However, the CCTV Truck has not been operational during the reporting period and has not yet been repaired due to the City's finances.</p> | <p>The City's on-going financial crisis has hindered our efforts in addressing Permit Year 4 requirements. As the City continues to recover, every effort will be made to meet current and future requirements going forward.</p> <p>The City has secured a contract with an external on-call consultant to develop the required Outfall Reconnaissance Map for outfall screenings. As soon as the map is completed, required outfalls will be identified and screened.</p> | <p>With the combined efforts of internal and external resources, the City plans to undertake all applicable 60 month tasks and activities outlined under Section II.B.3 of the New Permit.</p> |
| 4. Construction Site Runoff | 4.1 Erosion and Sediment Control Program | Administer an erosion and sediment control program consistent with the Virginia Erosion and Sediment Control Regulations. | <p>IIB.4.a. Applicable Oversight (ordinance, permits, contract language, interjurisdictional agreements)</p> <p>IIB.4.b. Approval of plan/agreement prior to land disturbing activity.</p> <p>IIB.4.c. Compliance and Enforcement</p> <p>IIB.4.d. Regulatory Coordination</p> <p>IIB.4.e. MS4 Program Plan Requirements</p> <p>IIB.4.f. Annual Reporting Requirements</p> | <p>In Permit Year 4, DPW reviewed E&S plan submittals, land disturbance permits issued, and made continual efforts to ensure that the deficiencies in enforcement per DCR's CAA review of the program do not resurface. During Permit Year 4, there were 332 construction site stormwater inspections, with no enforcement actions in the reporting periods (significant increase primarily due to the City hiring and retaining a full-time permanent SWM/E&S Inspector). Please refer to Appendix C for a list of projects and associated acreage disturbed for which land disturbance permits were issued during Permit Year 4.</p> | <p>The City is also currently securing a contract with an external consultant. If requested, documentation of the executed contract will be submitted to DEQ.</p> | <p>With the combined efforts of internal and external resources, the City plans to undertake all applicable 60 month tasks and activities outlined under Section II.B.4 of the New Permit.</p> |

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|--|---|--|---|---|--|---|
| 5. Post-construction Stormwater Management | 5.1 Stormwater Management Program | Reduce the stormwater quality impacts of new development and redevelopment on receiving waters. | IIB.5.a. Applicable Oversight Requirements IIB.5.d. MS4 Program Plan Requirements | The City of Petersburg continued efforts to resolve any issues found by the Chesapeake Bay Local Assistance Board, as outlined in the 2010 Annual Report. | The City is also currently securing a contract with an external consultant. If requested, documentation of the executed contract will be submitted to DEQ. | With the combined efforts of internal and external resources, the City plans to undertake all applicable 60 month tasks and activities outlined under Section II.B.5 of the New Permit. |
| | 5.2 VSMP Construction Permit Administration | Petersburg will develop a program to manage permit authority once the revised VSMP Construction General Permit regulations have been adopted by the State Soil and Water Conservation Board. | IIB.5.b.Required Design Criteria (ordinances, permits, orders, contract language, and interjurisdictional agreements) | The City hired and retained a full-time permanent SWM/E&S Inspector in November 2015 and continues to make every effort to acquire the necessary staffing and resources, and performed all steps required by DEQ as local VSMP authority. | The current BMP is appropriate for addressing the measurable goals outlined in Section II of the General Permit. | The City plans to undertake all applicable 60 month tasks and activities outlined under Section II.B.5 of the New Permit. |
| | 5.3 Structural BMP Inventory | Provide an inventory of all structural BMPs within the City. | IIB.5.e.Tracking and Reporting Requirements | <p>With the aid of the DEQ "Historical Data Cleanup" grant, the BMP Facilities Database has been significantly updated. This update is reflected in the MS4 Program Plan generally approved by DEQ in December 2015 and in Appendix F of this MS4 Annual Report. DPW continues to make every effort to incorporate new BMPs into the database once the newly constructed BMP has been certified by the Professional Engineer and approved as acceptable.</p> <p>The City still reviews the BMP database whenever possible to correct/complete the required fields including geographic location (VAHU6 code) and number of acres treated, and update the database to include additional recently constructed stormwater management facilities. DPW uses the BMP database information in evaluating stormwater management programs and to determine a plan and schedule of conducting inspections.</p> | The City is also currently securing a contract with an external consultant. If requested, documentation of the executed contract will be submitted to DEQ. | With the combined efforts of internal and external resources, the City plans to undertake all applicable 60 month tasks and activities outlined under Section II.B.5 of the New Permit. |

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|---|--|--|---|---|--|---|
| | 5.4 BMP Inspection and Maintenance | Develop an inspection and maintenance program to ensure proper function and maintenance of all structural BMPs in the City in an effort to protect receiving waters. | IIB.5.c. Inspection, Operation, and Maintenance Verification | DPW continued to implement inspection and maintenance schedules and identify maintenance needs. A two-man inspection team from DPW Surveys typically inspects the BMPs utilizing a checklist to evaluate the facility and photographs the facility during the inspection. | The City is also currently securing a contract with an external consultant. If requested, documentation of the executed contract will be submitted to DEQ. | With the combined efforts of internal and external resources, the City plans to undertake all applicable 60 month tasks and activities outlined under Section II.B.5 of the New Permit. |
| 6. Pollution Prevention/ Good Housekeeping for Municipal Operations | 6.1 MS4 Operation and Maintenance | DPW has a dedicated field crew that maintains the MS4 to ensure the system is functioning properly. | IIB.6.a. Operations and Maintenance activities IIB.6.b. Municipal Facility pollution prevention and good housekeeping IIB.6.c. Turf and Landscape Management IIB.6.e. Control Measures/Procedures (municipal contractors) IIB.6.f. MS4 Program Plan Requirements IIB.6.g. Annual Reporting Requirements | DPW Operations Division keeps records on storm sewer maintenance work and the street sweeping program. Expenses for sweeping and drain cleaning for the reporting period are included in Appendix D. The City's Dogwood Trace Golf Course is the only City-owned property with a nutrient management plan required for a total of 87.73 acres (the plan has also been implemented for all 87.73 acres). | The City secured a contract with an external on-call consultant, which prepared an inventory of municipal sites requiring a SWPPP (including SWPPP's developed for each site), a draft Nutrient Management Plan and Implementation Schedule, and a municipal training plan and schedule. | With the combined efforts of internal and external resources, the City plans to undertake all applicable 60 month tasks and activities outlined under Section II.B.6 of the New Permit. |
| | 6.2 Employee Pollution Prevention Training | DPW will provide employee training for staff involved with field activities that may impact the MS4. | IIB.6.d.(1) Illicit discharges IIB.6.d.(2) Road, street and parking maintenance IIB.6.d.(3) Maintenance of public works facilities IIB.6.d.(4) Pesticide/herbicide control (contractors) IIB.6.d.(5) Employee/contractor E&S certifications (plan review, inspection, program administration, construction site operators) IIB.6.d.(6) E&S certifications (employees) IIB.6.d.(7) Recreational facilities IIB.6.d.(8) Spill response (emergency response employees) IIB.6.d.(9) Documentation | DPW used resources and guides from the internet and other resources to develop program components. The City has made plans to implement Good Housekeeping training for applicable employees. We will continue inspecting city operations facilities in conjunction with the inspections of private BMPs. The Buildings and Grounds Division only uses certified staff to handle and apply fertilizers, pesticides, and other chemicals. | The City is also currently securing a contract with an external consultant. If requested, documentation of the executed contract will be submitted to DEQ. | With the combined efforts of internal and external resources, the City plans to undertake all applicable 60 month tasks and activities outlined under Section II.B.6 of the New Permit. |

Additional Annual Reporting Requirements

(Pursuant to General Permit No.: VAR04, the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems)

Annual characterization that estimates the volume of stormwater discharged, in cubic feet, and the quantity of pollutant identified in the WLA [bacteria], in a unit consistent with the WLA [annual fecal coliform load, cfu/yr], discharged by the regulated small MS4 [City of Petersburg]:

Please refer to Appendix E for the WLA Calculations and Results Summary.

Updated Program Plan with any new information regarding the TMDL:

See “Minimum Control Measure 2” reporting (BMP 2.2) for updated TMDL information.

Permanent Stormwater Management Facility Data (Appendix F):

See “Minimum Control Measure 5” reporting (BMP 5.3) for updated information. Revenues from Petersburg’s Stormwater Utility fees were collected beginning in September 2013. As the City still continues to try to recover from the financial crisis occurring after 2013, all internal and external resources will be utilized to augment internal staffing/funding levels needed to fully complete the tracking database update. If requested, documentation of any external executed consultant contracts will be submitted to DEQ.

Additional Requested Background Information:

Permit II.B.3.a(3) Outfall map showing all required MS4 outfalls was completed in May 2018. This map will be included in the 2018 Annual Report.

Permit II.B.3.f(2) Required outfalls have been identified and screened; documentation will be provided in the 2018 Annual Report.

Permit II.B.6.g(1) Unfortunately there has been significant turnover in many areas of municipal operations. For example, the General Manager positions for Street Operations, Utilities, and Facilities Management Divisions in Public Works are all currently vacant. We do now have a new Public Works Director, and the General Manager positions should be filled very soon. As staff is replenished, the status of daily operational procedures will be re-assessed and implemented.

Permit II.B.6.g(2) SWPPP's have been developed by external on-call consultant and distributed to the municipal sites listed in inventory – assessment of implementation status (including SWPPP inspections) will be completed with replenishment of key municipal operations personnel as mentioned in "Permit II.B.6.g(1)".

Permit II.B.6.g(4) Due to the turnover issues mentioned in "Permit II.B.6.g(1)", we will re-engage and conduct required training as key municipal operations personnel are replenished.

Permit II.E.3.b See "Minimum Control Measure 2" reporting (BMP 2.1) regarding the City's updated MS4 Program Plan.

Permit II.E.3.c See "Minimum Control Measure 3" reporting (BMP 3.3) for updated information regarding collection of water quality samples.

Permit II.E.3.d See "Minimum Control Measure 2" reporting (BMP 2.1) regarding the City's updated MS4 Program Plan.

Permit II.E.3.e See "Minimum Control Measure 2" reporting (BMP 2.1) regarding the City's updated MS4 Program Plan.

Permit II.E.3.f The City of Petersburg is not presently relying on another government entity to satisfy any of the state permit obligations.

Permit II.E.3.g The City of Petersburg is not presently relying on any other programs to satisfy MCM requirements.

Permit II.E.3.h Per Table 4 of the City's Chesapeake Bay TMDL Plan, the POC Removal for the "Street Sweeping" control measure (which is on-going) will be more than sufficient to meet the compliance targets for N, P, and SS during the current reporting cycle (5.0%). Also per Table 4, additional control measures that will also be implemented/reported during the next reporting period include the following: "Canal Street Bioretention" Project – complete, "Brickhouse Run Stream Restoration" Project – in design, and "Lieutenant Run Stream Restoration" Project – currently obtaining funding. The City intends to have all these control measures implemented, exceeding (if not making significant progress toward) all compliance targets for the next period.

Appendix A. Sample Public Education and Outreach Materials

Contact us

For additional information, contact your local DCR Watershed office

www.dcr.virginia.gov/soil_&_water/swintro.shtml#regional

Abingdon
(276) 676-5528

Clarksville
(434) 374-3648

Dublin
(540) 643-2590

Richmond
(804) 225-4468

Staunton
(540) 332-9991

Suffolk
(757) 925-2468

Tappahannock
(804) 443-6752

Warrenton
(540) 347-6420



VSMP

VIRGINIA STORMWATER MANAGEMENT PROGRAM



GENERAL PERMIT

*for Discharges of Stormwater
from Construction Activities*

VSMP



Under federal law, construction site operators must develop and implement plans to address water quality and prevent sediment and other pollutants from washing into nearby streams, rivers, lakes and coastal waters. In Virginia this is done through the issuance of a **Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Stormwater from Construction Activities**.

The Federal Clean Water Act requires those undertaking many construction activities to obtain National Pollutant Discharge Elimination System (NPDES) Permit coverage for stormwater runoff. The Virginia Department of Conservation and Recreation (DCR) is authorized by the Virginia Stormwater Management Act to administer the NPDES Program.

Who must apply?

All owners and operators of construction activities with **a land-disturbance equal to or greater than one acre MUST**, except for two circumstances:

> In **designated Chesapeake Bay Preservation Areas – land-disturbance equal to or greater than 2,500 square feet**

- Chesapeake Bay Preservation localities are in Tidewater Virginia, generally east of Interstate 95 and metropolitan Richmond. Contact the locality where land-disturbance is occurring to determine if it is in a **designated** Chesapeake Bay Preservation Area.

> **Sites in a common plan of development or sale**

- **Larger common plan of development or sale** defines a contiguous area where separate and distinct construction is taking place at different times on different schedules.
- **Plan** is broadly defined as any announcement or documentation, including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc., or physical demarcation such as boundary signs, lot stakes, surveyor markings and so on, indicating that construction activities may occur on a specific plot.
- The permit threshold and fees are based on the ultimate land-disturbance of a larger common plan of development or sale.

Effect on construction activities

Operators of construction activities requiring VSMP General Permit coverage must obtain a VSMP General Permit **before beginning land disturbance activities**. This involves developing a Stormwater Pollution Prevention Plan (SWPPP, pronounced *swhip*) prior to sub-



mitting a **Registration Statement for permit coverage**. As part of this process operators must:

- Address post-development water quality in the SWPPP and in accordance with the general permit.
- Keep a copy of the VSMP Permit Coverage Letter, General Permit (DCR01) and SWPPP on site.
- Follow and maintain SWPPP throughout construction.
- Submit a VSMP General Permit Notice of Termination (DCR199-147) to DCR within 30 days after final stabilization.

All permitted sites are subject to inspection by DCR staff.

SWPPP

Post construction stormwater management

Section II D.2.c of the General Permit (DCR01) requires that the SWPPP include:

- A description of, and all necessary calculations supporting, all post-construction stormwater management measures that will be installed during construction to control pollutants in stormwater discharge after construction is finished.
- The measures must be designed in accordance with applicable local and state requirements.
- The state SWM requirements can be found in the Virginia SWM handbook available on the web at:
http://www.dcr.virginia.gov/soil_&_water/stormwat.shtml

Fees

for the VSMP General Permit (DCR01)

Fees are based on the area of land-disturbance:

- Equal to or greater than five acres: **\$500**
- Equal to or greater than one and less than five acres: **\$300**
- Equal to or greater than 2,500 square feet and less than one acre: **No Fee**

For construction activities that are part of a common plan of development, the fee is based on the total area of land disturbance.

Notes:

- Fees are subject to change.
- This brochure is meant as a basic guide: It is not comprehensive.
- Read the General Permit (DCR01) for full permit requirements.

What is a SWPPP?

A SWPPP, or Stormwater Pollution Prevention Plan, identifies potential pollution sources from the construction activity and describes the methods used to control pollutants. The VSMP General Permit (DCR01) contains a complete list of SWPPP requirements.

Major components of a SWPPP:

A narrative including:

- Description of the site
- List of contractors, including contact information
- List of receiving waters
- List of potential pollution sources
- List of measures and BMPs to control pollutants
- Schedule of grading and stabilization activities
- Record of inspections performed by qualified personnel (Qualified personnel means a professional engineer (P.E.), or DCR certified responsible land disturber, inspector or combined administrator)

A site plan with:

- Identification of drainage patterns
- Location of stormwater discharges
- Location of pollutant sources and related control measures and BMPs
- Erosion and Sediment Control Plan with design calculations (may be fulfilled by referencing approved state or local E&S plans)
- Description of post-development stormwater management (SWM) measures including design calculations (may be fulfilled by referencing approved state or local SWM plans)

The SWPPP must be revised if there is a change in design, construction, operation or maintenance that can affect the discharge of pollutants from the site.

How to obtain permit coverage

1. Prepare a SWPPP in accordance with Section II of the General Permit (DCR01). The SWPPP must be prepared before applying for the permit coverage. It is reviewed onsite by DCR staff.
2. Mail a complete VSMP General Permit Registration Statement (DCR 199-146) along with a topographic map and list of permanent BMPs to:
3. Mail a complete Permit Application fee form (DCR 199-145) and check payable to Treasurer of Virginia to:

Virginia Department of Conservation and Recreation
Stormwater Permitting
203 Governor Street, Suite 206
Richmond, VA 23219

Virginia Department of Conservation and Recreation
Division of Finance, Accounts Payable
203 Governor Street
Richmond, VA 23219

The VSMP General Permit Registration Statement, Fee form and the General Permit (DCR01) are available at:
http://www.dcr.virginia.gov/soil_&_water/vsmp.shtml

Stormwater can pick up debris, chemicals, dirt, and other pollutants and flow into a storm sewer system or directly to a lake, stream, river, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing, and providing drinking water.



Why is stormwater runoff a problem?

Stormwater runoff occurs when precipitation from rain or snowmelt flows over the ground. Impervious surfaces like driveways, sidewalks, and streets prevent stormwater from naturally soaking into the ground.



What is stormwater runoff?



◆ Polluted stormwater often affects drinking water sources. This, in turn, can affect human health and increase drinking water treatment costs.

◆ Debris—plastic bags, six-pack rings, bottles, and cigarette butts—washed into waterbodies can choke, suffocate, or disable aquatic life like ducks, fish, turtles, and birds.



◆ Household hazardous wastes like insecticides, pesticides, paint, solvents, used motor oil, and other auto fluids can poison aquatic life. Land animals and people can become sick or die from eating diseased fish and shellfish or ingesting polluted water.



◆ Excess nutrients can cause algae blooms. When algae die, they sink to the bottom and decompose in a process that removes oxygen from the water. Fish and other aquatic organisms can't exist in water with low dissolved oxygen levels.

◆ Bacteria and other pathogens can wash into swimming areas and create health hazards, often making beach closures necessary.

◆ Sediment can cloud the water and make it difficult or impossible for aquatic plants to grow. Sediment also can destroy aquatic habitats.

◆ Polluted stormwater runoff can have many adverse effects on plants, fish, animals, and people.

The effects of pollution



After the Storm

For more information contact:

Darryl E. Walker
 City of Petersburg - Department of Public Works
 City Hall Annex, 103 West Tabb Street
 Petersburg, VA 23803
 (804) 733-2357
 dwalker@petersburg-va.org

or visit
www.epa.gov/npdes/stormwater
www.epa.gov/nps



EPA 833-B-03-002

January 2003



A Citizen's Guide to
 Understanding Stormwater



Stormwater Pollution Solutions

Residential



Recycle or properly dispose of household products that contain chemicals, such as insecticides, pesticides, paint, solvents, and used motor oil and other auto fluids. Don't pour them onto the ground or into storm drains.

Lawn care

Excess fertilizers and pesticides applied to lawns and gardens wash off and pollute streams. In addition, yard clippings and leaves can wash into storm drains and contribute nutrients and organic matter to streams.



- ◆ Don't overwater your lawn. Consider using a soaker hose instead of a sprinkler.
- ◆ Use pesticides and fertilizers sparingly. When use is necessary, use these chemicals in the recommended amounts. Use organic mulch or safer pest control methods whenever possible.
- ◆ Compost or mulch yard waste. Don't leave it in the street or sweep it into storm drains or streams.
- ◆ Cover piles of dirt or mulch being used in landscaping projects.

Septic systems

Leaking and poorly maintained septic systems release nutrients and pathogens (bacteria and viruses) that can be picked up by stormwater and discharged into nearby waterbodies. Pathogens can cause public health problems and environmental concerns.



- ◆ Inspect your system every 3 years and pump your tank as necessary (every 3 to 5 years).
- ◆ Don't dispose of household hazardous waste in sinks or toilets.

Auto care

Washing your car and degreasing auto parts at home can send detergents and other contaminants through the storm sewer system. Dumping automotive fluids into storm drains has the same result as dumping the materials directly into a waterbody.



- ◆ Use a commercial car wash that treats or recycles its wastewater, or wash your car on your yard so the water infiltrates into the ground.
- ◆ Repair leaks and dispose of used auto fluids and batteries at designated drop-off or recycling locations.

Pet waste

Pet waste can be a major source of bacteria and excess nutrients in local waters.



- ◆ When walking your pet, remember to pick up the waste and dispose of it properly. Flushing pet waste is the best disposal method. Leaving pet waste on the ground increases public health risks by allowing harmful bacteria and nutrients to wash into the storm drain and eventually into local waterbodies.



Education is essential to changing people's behavior. Signs and markers near storm drains warn residents that pollutants entering the drains will be carried untreated into a local waterbody.

Residential landscaping

Permeable Pavement—Traditional concrete and asphalt don't allow water to soak into the ground. Instead these surfaces rely on storm drains to divert unwanted water. Permeable pavement systems allow rain and snowmelt to soak through, decreasing stormwater runoff.

Rain Barrels—You can collect rainwater from rooftops in mosquito-proof containers. The water can be used later on lawn or garden areas.



Rain Gardens and Grassy Swales—Specially designed areas planted with native plants can provide natural places for



rainwater to collect and soak into the ground. Rain from rooftop areas or paved areas can be diverted into these areas rather than into storm drains.

Vegetated Filter Strips—Filter strips are areas of native grass or plants created along roadways or streams. They trap the pollutants stormwater picks up as it flows across driveways and streets.



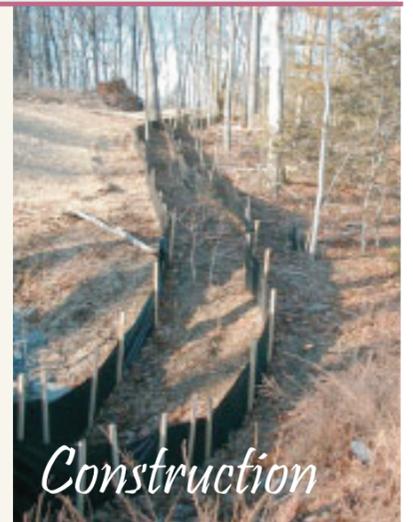
Commercial

Dirt, oil, and debris that collect in parking lots and paved areas can be washed into the storm sewer system and eventually enter local waterbodies.

- ◆ Sweep up litter and debris from sidewalks, driveways and parking lots, especially around storm drains.
- ◆ Cover grease storage and dumpsters and keep them clean to avoid leaks.
- ◆ Report any chemical spill to the local hazardous waste cleanup team. They'll know the best way to keep spills from harming the environment.

Erosion controls that aren't maintained can cause excessive amounts of sediment and debris to be carried into the stormwater system. Construction vehicles can leak fuel, oil, and other harmful fluids that can be picked up by stormwater and deposited into local waterbodies.

- ◆ Divert stormwater away from disturbed or exposed areas of the construction site.
- ◆ Install silt fences, vehicle mud removal areas, vegetative cover, and other sediment and erosion controls and properly maintain them, especially after rainstorms.
- ◆ Prevent soil erosion by minimizing disturbed areas during construction projects, and seed and mulch bare areas as soon as possible.



Construction

Agriculture

Lack of vegetation on streambanks can lead to erosion. Overgrazed pastures can also contribute excessive amounts of sediment to local waterbodies. Excess fertilizers and pesticides can poison aquatic animals and lead to destructive algae blooms. Livestock in streams can contaminate waterways with bacteria, making them unsafe for human contact.

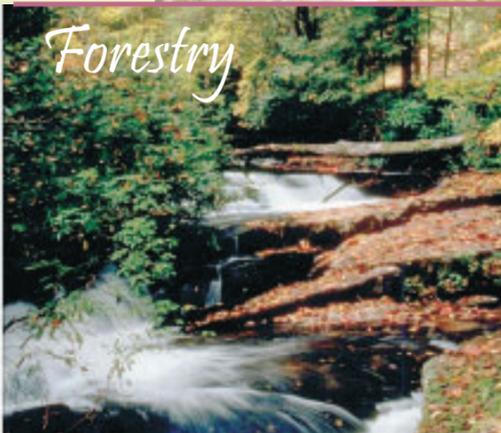
- ◆ Keep livestock away from streambanks and provide them a water source away from waterbodies.
- ◆ Store and apply manure away from waterbodies and in accordance with a nutrient management plan.
- ◆ Vegetate riparian areas along waterways.
- ◆ Rotate animal grazing to prevent soil erosion in fields.
- ◆ Apply fertilizers and pesticides according to label instructions to save money and minimize pollution.



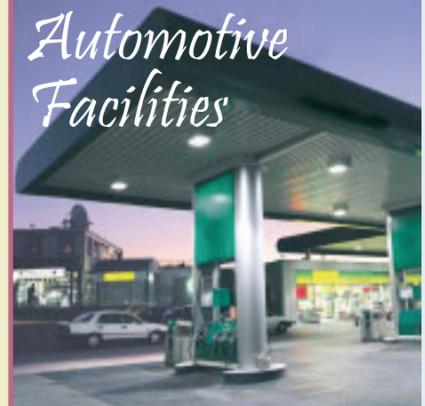
Forestry

Improperly managed logging operations can result in erosion and sedimentation.

- ◆ Conduct preharvest planning to prevent erosion and lower costs.
- ◆ Use logging methods and equipment that minimize soil disturbance.
- ◆ Plan and design skid trails, yard areas, and truck access roads to minimize stream crossings and avoid disturbing the forest floor.
- ◆ Construct stream crossings so that they minimize erosion and physical changes to streams.
- ◆ Expedite revegetation of cleared areas.



Automotive Facilities



Uncovered fueling stations allow spills to be washed into storm drains. Cars waiting to be repaired can leak fuel, oil, and other harmful fluids that can be picked up by stormwater.

- ◆ Clean up spills immediately and properly dispose of cleanup materials.
- ◆ Provide cover over fueling stations and design or retrofit facilities for spill containment.
- ◆ Properly maintain fleet vehicles to prevent oil, gas, and other discharges from being washed into local waterbodies.
- ◆ Install and maintain oil/water separators.

Pet Care

- When walking your pet, remember to **pick up** the waste and dispose of it properly. Flushing pet waste is the best disposal method. Leaving pet waste on the ground increases public health risks by allowing harmful bacteria and nutrients to wash into the storm drain and eventually into local waterbodies.

Swimming Pool and Spa

- **Drain** your swimming pool only when a test kit does not detect chlorine levels.
- Whenever possible, drain your pool or spa into the **sanitary** sewer system.
- Properly store pool and spa chemicals to **prevent** leaks and spills, preferably in a covered area to avoid exposure to stormwater.

Septic System Use and Maintenance

- Have your septic system **inspected** by a professional at least every 3 years, and have the septic tank **pumped** as necessary (usually every 3 to 5 years).
- Care for the septic system drainfield by **not** driving or parking vehicles on it. Plant only grass over and near the drainfield to avoid damage from roots.
- Flush responsibly. Flushing household chemicals like paint, pesticides, oil, and antifreeze can **destroy** the biological treatment taking place in the system. Other items, such as diapers, paper towels, and cat litter, can **clog** the septic system and potentially damage components.

Storm drains connect to waterbodies!

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(804) 733-2357

Petersburg, VA 23803

City Hall Annex, 103 West Tabb Street

City of Petersburg - Department of Public Works

Contact: Darryl E. Walker, dwalker@petersburg-va.org

www.epa.gov/nps

or

www.epa.gov/nps/stormwater

For more information, visit

Remember: Only rain down the drain!



Make your home
The
SOLUTION
TO STORMWATER
POLLUTION!

*A homeowner's guide to healthy
habits for clean water*



As stormwater flows over driveways, lawns, and sidewalks, it picks up debris, chemicals, dirt, and other pollutants. Stormwater can flow into a storm sewer system or directly to a lake, stream, river, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing, and providing drinking water. Polluted runoff is the nation's greatest threat to clean water.



By practicing healthy household habits, homeowners can keep common pollutants like pesticides, pet waste, grass clippings, and automotive fluids off the ground and out of stormwater. Adopt these healthy household habits and help protect lakes, streams, rivers, wetlands, and coastal waters. Remember to share the habits with your neighbors!

Healthy Household Habits for Clean Water

Vehicle and Garage

- Use a commercial car wash or wash your car on a lawn or other unpaved surface to **minimize** the amount of dirty, soapy water flowing into the storm drain and eventually into your local waterbody.



- Check your car, boat, motorcycle, and other machinery and equipment for leaks and spills. Make repairs as soon as possible. Clean up **spilled fluids** with an absorbent material like kitty litter or sand, and don't rinse the spills into a nearby storm drain. Remember to properly dispose of the absorbent material.
- **Recycle** used oil and other automotive fluids at participating service stations. Don't dump these chemicals down the storm drain or dispose of them in your trash.

Lawn and Garden

- Use pesticides and fertilizers **sparingly**. When use is necessary, use these chemicals in the recommended amounts. Avoid application if the forecast calls for rain; otherwise, chemicals will be washed into your local stream.
- Select **native** plants and grasses that are drought- and pest-resistant. Native plants require less water, fertilizer, and pesticides.
- **Sweep up** yard debris, rather than hosing down areas. Compost or recycle yard waste when possible.
- Don't overwater your lawn. Water during the **cool** times of the day, and don't let water run off into the storm drain.
- Cover piles of dirt and mulch being used in landscaping projects to prevent these pollutants from blowing or washing off your yard and into local waterbodies. **Vegetate** bare spots in your yard to prevent soil erosion.

Home Repair and Improvement

- Before beginning an outdoor project, locate the nearest storm drains and **protect** them from debris and other materials.
- **Sweep up** and properly dispose of construction debris such as concrete and mortar.
- Use hazardous substances like paints, solvents, and cleaners in the **smallest amounts possible**, and follow the directions on the label. Clean up spills **immediately**, and dispose of the waste safely. Store substances properly to avoid leaks and spills.
- Purchase and use **nontoxic, biodegradable, recycled, and recyclable** products whenever possible.
- **Clean** paint brushes in a sink, not outdoors. Filter and reuse paint thinner when using oil-based paints. Properly dispose of excess paints through a household hazardous waste collection program, or donate unused paint to local organizations.
- **Reduce** the amount of paved area and increase the amount of vegetated area in your yard. Use native plants in your landscaping to reduce the need for watering during dry periods. Consider directing downspouts away from paved surfaces onto lawns and other measures to increase infiltration and reduce polluted runoff.



[ESMS- ISO 14001 Standard](#)

[Blandford Cemetery](#)

[Engineering](#)

[Facility Management](#)

[Stormwater Management](#)

[Street Operations](#)

[Home](#) » [Government](#) » [Departments J-Z](#) » [Public Works](#) » [Stormwater Management](#)

STORMWATER MANAGEMENT

The Stormwater Management Program promotes effective storm water drainage and informs and educates residents on storm water issues.

Responsibilities

The Stormwater Management Program's responsibilities include;

- Daily site inspection of multiple construction projects to ensure compliance with local, state, and federal codes and standards
- Performs site construction, erosion and sediment control (E&S), and Best Management Practice inspections in support of the City's E&S, MS4 and VSMP Permit
- The review of site and development plans

Additional Information

The city operates and maintains drainage facilities that are located within the public right-of-way or public easements.

[Stormwater Utility Frequently Asked Questions](#)

[Stormwater Advisory Committee Presentation](#)

[June 2013 Public Meeting Presentation \(Stormwater Utility Fee Program\)](#)

[Stormwater Utility Ordinance \(As Adopted\)](#)

[Stormwater Utility Rate Resolution \(As Adopted\)](#)

[Residential Fee Credit Manual \(With Application\)](#)

[Non-Residential /Multi-Family Fee Credit Manual \(With Application\)](#)

[MS4 Annual Report](#)

[MS4 Program Plan](#)

[2015 Chesapeake Bay TMDL Action Plan](#)

CONTACT US

Darryl Walker
Stormwater Program Manager
[Email](#)

103 W. Tabb St.
Petersburg, VA 23803

Ph: 804-733-2357
F: 804-732-2030

Hours
Monday - Friday
8:30 a.m. - 5 p.m.

[Staff Directory](#)

QUICK LINKS

- [Virginia Department of Environmental Quality](#)

TEN TIPS FOR FERTILIZING YOUR LAWN



1. Get Tested

Have your soil tested for pH levels and the need for additional nutrients. This will help determine which fertilizers and supplements are needed.

2. Buy What You Need

Buy organic or synthetic fertilizer. Don't use a weed and feed product unless you have widespread weed problems in your yard. Instead, use straight fertilizer and spot treat or pull weeds. Ask the Cooperative Extension Service or your local garden center for specific guidance.

3. Slow It Down

Select lawn-grade fertilizers that include Slow Release Nitrogen to prevent lawn burn, reduce runoff and leaching of nutrients into groundwater.

4. Be Well Read

Read and follow all label directions when applying fertilizer. Incorrect application such as spilling onto paved surfaces can result in fertilizer being washed down storm sewers and ending up in our waterways.

5. Chill Out

Grass will not use fertilizer when it is not actively growing. To prevent runoff pollution of lakes and streams, never apply fertilizers to frozen ground or pavement.

6. Spread It Out

Be sure your spreader is working and adjusted properly. Read and follow the spreader setting instructions on the fertilizer label so that your spreader applies the correct amount of fertilizer.

7. Recycle Your Lawn

Leave the height of your grass long when mowing and leave clippings on your lawn to decompose. "Grass-cycling" is a great source of nitrogen and saves water and fertilizer.

8. Recycle Your Yard

Compost leaves, yard debris, and non-meat food scraps. They make great mulch for the garden.

9. Slenderize Your Yard

Keep your yard healthy by controlling how much fertilizer it gets. Follow recommended rates for lawns in your area.

10. Protect The Borders

When applying fertilizers, maintain a buffer strip or fertilizer-free zone around the edges of lakes and streams.

Additional information can be found by following the link below:

<http://www.epa.gov/reg3wcmd/pesticideslawn.htm>

**Appendix B. Illicit Discharge Reports
Filed/Documented by DEQ**

Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: 10092016-1 **Reported To:** 804 527-5127
Patrick Bishop

Date Reported: 10/9/16 **Time:** 12:30am **Reported by:** Richard Harris

Receiving Facility Name: Southside Central **Permit No.:** VA 0025437
Wastewater Authority WWTF

Owner of Conveyance Petersburg Public Utilities
(if different from receiving facility)

Address: 424 St. Andrews St.

County/City: Petersburg, VA **Zip:** 23803

Contact at Scene: Fred Satterwite **Telephone No.:** (804) 733-2407

Date of Incident 10/9/2016 **Time of Incident:** 12:30am

Length of Time Discharge Continued: 3

Volume of Discharge (gal): 1000

Location: River St. and Joseph Jenkins St.

A 3.5" rainfall over a five hour period caused an overflow at our Main Pump Station. All station equipment was in working order during the rain event.

Affected Body of Water (if applicable): Did not make it to a waterway

Has the Virginia Department of Health (VDH) Been Notified? Yes No
(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped and you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

RAW SEWAGE DISCHARGE REPORT

DATE 12-1-16

LOCATION 1232 mckenzie

DATE OF DISCHARGE 12-1-16

DURATION OF DISCHARGE

TIME FOUND 9:50 A.M. TIME OVERFLOW STOPPED 10:30 A.M.

QUANTITY OF DISCHARGE (GALLONS) 4 gallons

CAUSE OF DISCHARGE Hole in the pipe about the size of small top.

CORRECTIVE ACTION TAKEN fill the area in with okum and mixed some cement and filled in the area

FURTHER ACTION REQUIRED Replace 15' of pipe

NAMES OF PERSONNEL PRESENT L. Brown - C. Mason

NAME OF PERSON COMPLETING THIS FORM C. Mason

TO WHOM AND WHEN WAS THIS REPORTED L. Brown 9:50 A.M. 12-1-16

SIGNATURE Calvin Mason DATE 12-1-16

Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

804 527-5127
Patrick Bishop

Incident Response No: 12012016-1 Reported To: Patrick Bishop
Date Reported: 12/1/16 Time: 9:50am Reported by: Richard Harris
Receiving Facility Name: Southside Central Wastewater Authority WWTF Permit No.: VA 0025437
Owner of Conveyance (if different from receiving facility): Petersburg Public Utilities
Address: 424 St. Andrews St.
County/City: Petersburg, VA Zip: 23803
Contact at Scene: Calvin Mason Telephone No.: (804) 733-2407
Date of Incident: 12-1-2016 Time of Incident: 9:50am
Length of Time Discharge Continued: 40 min
Volume of Discharge (gal): 4 gallons

Description of Nature and Location of Discharge 1232 McKenzie st
There was a hole in the sewer main
pipe at 1232 McKenzie.

Affected Body of Water (if applicable): Did not make it to a waterway

Has the Virginia Department of Health (VDH) Been Notified? Yes No
(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped and you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: 12152016-1 Reported To: 804 527-5127
Patrick Bishop

Date Reported: 12/15/16 Time: 1:34pm Reported by: Richard HarrisTH

Receiving Facility Name: Southside Central Wastewater Authority WWTF Permit No.: VA 0025437

Owner of Conveyance (if different from receiving facility): Petersburg Public Utilities

Address: 424 St. Andrews St.

County/City: Petersburg, VA Zip: 23803

Contact at Scene: James Smith Telephone No.: (804) 466-9520

Date of Incident: 12-15-2016 Time of Incident: 1:34pm

Length of Time Discharge Continued: 3min

Volume of Discharge (gal): 5 to 10 gallons

Description of Nature and Location of Discharge: East Walnut Hill pump stat.
Both pumps failed at East Walnut Hill
pump station. No alarm was sent out
from SCADA

Affected Body of Water (if applicable): A Creek by the Station

Has the Virginia Department of Health (VDH) Been Notified? Yes No
 (Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped and you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: 12272016-1 Reported To: 804 527-5127
Patrick Bishop

Date Reported: 12-27-16 Time: 10:00 AM Reported by: James Lyons

Receiving Facility Name: Southside Central Permit No.: VA 0025437
Wastewater Authority WWTF

Owner of Conveyance (if different from receiving facility): Petersburg Public Utilities

Address: 424 St. Andrews St.

County/City: Petersburg, VA Zip: 23803

Contact at Scene: Fred Satterwhite Telephone No.: 804-400-9518

Date of Incident: 12-27-16 Time of Incident: 10:00 AM

Length of Time Discharge Continued: 10:45 AM

Volume of Discharge (gal): 750 gallons

Description of Nature and Location of Discharge: East Walnut Hill
Both pumps failed received High level Alarms
Reset pumps

Affected Body of Water (if applicable): _____

Has the Virginia Department of Health (VDH) Been Notified? Yes No
(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped and you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: 01-19-2017-1 Reported To: 804 527-5127 Patrick Bishop

Date Reported: 1-19-17 Time: 10:05 AM Reported by: C. Mason

Receiving Facility Name: Southside Central Wastewater Authority WWTF Permit No.: VA 0025437

Owner of Conveyance (if different from receiving facility): Petersburg Public Utilities

Address: 424 St. Andrews St.

County/City: Petersburg, VA Zip: 23803

Contact at Scene: Larry Brown Telephone No.: (804) 400-3272

Date of Incident: 1-19-17 Time of Incident: 10:05 A.M.

Length of Time Discharge Continued: 15-20 mins.

Volume of Discharge (gal): 15 gallons

Description of Nature and Location of Discharge: 1326 Steel St.
Sewer manhole was overflowing (clean-out box)
into the street. Rodded the main line to remove build-up
and to take pressure off of line. Line open and flowing

Affected Body of Water (if applicable): _____

Has the Virginia Department of Health (VDH) Been Notified? Yes No
 (Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped and you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

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Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: 1-23-2017-1 Reported To: 804 527-5127
Patrick Bishop

Date Reported: 1-23-17 Time: 2:00 PM Reported by: Richard Harris III
Southside Central

Receiving Facility Name: Wastewater Authority WWTF Permit No.: VA 0025437

Owner of Conveyance: Petersburg Public Utilities
(if different from receiving facility)

Address: 424 St. Andrews St.

County/City: Petersburg, VA Zip: 23803

Contact at Scene: Carnell Jones Telephone No.: 733-2407

Date of Incident: 1-23-17 Time of Incident: 2:00 PM

Length of Time Discharge Continued: 3

Volume of Discharge (gal): 1000

Description of Nature and Location of Discharge

RIVER ST AND JOSEPH ST.
A 2.5 RAIN FALL FIVE HOUR PERIOD CAUSED AN OVERFLOW
AT OUR MAIN PUMPSTATION. ALL STATION EQUIPMENT WAS IN
WORKING ORDER DURING THE RAIN EVENT

Affected Body of Water (if applicable): DID NOT MAKE IT TO A WATERWAY

Has the Virginia Department of Health (VDH) Been Notified? Yes No
(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped and you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: 02/06/2017-1 Reported To: 804 527-5127
Patrick Bishop

Date Reported: 2-06-17 Time: 7:35 AM Reported by: Richard Harris

Receiving Facility Name Wastewater Authority WWTF Permit No.: VA 0025437

Owner of Conveyance Petersburg Public Utilities
(if different from receiving facility)

Address: 424 St. Andrews St.

County/City: Petersburg, VA Zip: 23803

Contact at Scene: J Smith Telephone No.: (804) 400-9520

Date of Incident 2-6-17 Time of Incident: 7:30 AM

Length of Time Discharge Continued: 7:30 AM - 7:32 AM

Volume of Discharge (gal): 100 gal

Description of Nature and Location of Discharge

East Walnut Hill Pump Station / Pump failed had to
reset pumps.

Affected Body of Water (if applicable): Creek in front of the station

Has the Virginia Department of Health (VDH) Been Notified? Yes No
(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped and you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: 03142017-1 Reported To: 804 527-5127
Patrick Bishop

Date Reported: 03/14/17 Time: 6:15am Reported by: Richard Harris III
Southside Central

Receiving Facility Name Wastewater Authority WWTF Permit No.: VA 0025437

Owner of Conveyance Petersburg Public Utilities
(if different from receiving facility)

Address: 424 St. Andrews St.

County/City: Petersburg, VA Zip: 23803

Contact at Scene: Fred Satterwite Telephone No.: (804) 733-2407

Date of Incident 03/14/2017 Time of Incident: 6:15AM

Length of Time Discharge Continued: 2 hours

Volume of Discharge (gal): 1000

Description of Nature and Location of Discharge

Location: RIVER st and Joseph Jenkins st.
DUE to a significant amount of Rain caused an
overflow at our main pump station. ALL station
equipment was in working order during the rain
event. Pumps could not keep up with the
amount of Flow coming into the main pump
station doing the over flow.

Affected Body of Water (if applicable): Did not make it to a waterway

Has the Virginia Department of Health (VDH) Been Notified? Yes No
(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped and you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: 04012017-1 **Reported To:** 804 527-5127
Patrick Bishop
Date Reported: 04-01-2017 **Time:** 10:05 AM **Reported by:** Richard Harris
Receiving Facility Name: Southside Central Wastewater Authority WWTF **Permit No.:** VA 0025437
Owner of Conveyance Petersburg Public Utilities
(if different from receiving facility)
Address: 424 St. Andrews St.
County/City: Petersburg, VA **Zip:** 23803
Contact at Scene: Carnell Jones **Telephone No.:** (804) 733-2407
Michael Urvhart
Date of Incident: 04-01-2017 **Time of Incident:** 10:05 AM
Length of Time Discharge Continued: 7 hours
Volume of Discharge (gal): 250 gal

Description of Nature and Location of Discharge 1945 Puddledock rd

Chemicals From 1945 Puddledock (building) got into the cities main sewer line. This caused the city main to back up. Had to Rod and Jet the sewer main to open the line up.

Affected Body of Water (if applicable): _____

Has the Virginia Department of Health (VDH) Been Notified? Yes No
(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped and you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: 05052017-1 Reported To: 804 527-5127
Patrick Bishop

Date Reported: 05-05-2017 Time: 8:30 AM Reported by: Richard Harris
Southside Central

Receiving Facility Name Wastewater Authority WWTF Permit No.: VA 0025437

Owner of Conveyance Petersburg Public Utilities
(if different from receiving facility)

Address: 424 St. Andrews St.

County/City: Petersburg, VA Zip: 23803

Contact at Scene: Richard Harris III Telephone No.: (804) 733-2407

Date of Incident 05-05-2017 Time of Incident: 8:30 AM

Length of Time Discharge Continued: 1 hour

Volume of Discharge (gal): 500 gal

Description of Nature and Location of Discharge

Location: RIVER st and Joseph Jenkins st
Due to a significant amount of rain caused an
over flow at RIVER st and Joseph Jenkins st
ALL pump station equipment was in working
order during the rain event. Pumps could not
keep up with the amount of flow coming
into the main pump station doing the overflow.

Affected Body of Water (if applicable): N/A

Has the Virginia Department of Health (VDH) Been Notified? Yes No
(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped and you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

804 527-5127
Patrick Bishop

Incident Response No: 05052017-2 Reported To: _____

Date Reported: 5-5-17 Time: 9:10 A.M. Reported by: Caller
Southside Central

Receiving Facility Name Wastewater Authority WWTF Permit No.: VA 0025437

Owner of Conveyance Petersburg Public Utilities
(if different from receiving facility)

Address: 424 St. Andrews St.

County/City: Petersburg, VA Zip: 23803

Contact at Scene: C. Jones / C. Mason Telephone No.: 804-479-7680 / 479-7586

Date of Incident 5-5-17 Time of Incident: 9:10 A.M.

Length of Time Discharge Continued: 15-18 mins

Volume of Discharge (gal): 14-16 gallons

Description of Nature and Location of Discharge

Location: Fairgrounds Rd - Pean Acres
During the morning rain the manhole took on all the water it could and it had clogs of grease blocking the invert to the manhole; we jetted in the area and took care of the situation. Line open and flowing

Affected Body of Water (if applicable): NONE

Has the Virginia Department of Health (VDH) Been Notified? Yes No
(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped and you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: 05052017-3 **Reported To:** 804 527-5127
Patrick Bishop

Date Reported: 5-05-17 **Time:** 8:20 am **Reported by:** Fred Satterwhite
Receiving Facility Name: Southside Central
Wastewater Authority WWTF **Permit No.:** VA 0025437

Owner of Conveyance Petersburg Public Utilities
(if different from receiving facility)

Address: 424 St. Andrews St.

County/City: Petersburg, VA **Zip:** 23803

Contact at Scene: Fred Satterwhite **Telephone No.:** 804-400-9518

Date of Incident 5-05-17 **Time of Incident:** 8:20am 8:37 am

Length of Time Discharge Continued: 17 minutes

Volume of Discharge (gal): 100 gals.

Description of Nature and Location of Discharge

Bank Street Pump Station—pump failure during heavy rain caused surcharging of station manhole.

Affected Body of Water (if applicable): N/A

Has the Virginia Department of Health (VDH) Been Notified? Yes No

(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped and you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: 05052017-4 Reported To: 804 527-5127
Patrick Bishop

Date Reported: 5-5-17 Time: 1:40 Reported by: CARNELL J.
Southside Central

Receiving Facility Name: Wastewater Authority WWTF Permit No.: VA 0025437

Owner of Conveyance: Petersburg Public Utilities
(if different from receiving facility)

Address: 424 St. Andrews St.

County/City: Petersburg, VA Zip: 23803

Contact at Scene: CARNELL J./G. MAREK Telephone No.: 479-7680

Date of Incident: 5-5-17 Time of Incident: 1:15

Length of Time Discharge Continued: 3hrs

Volume of Discharge (gal): 150 gallon

Description of Nature and Location of Discharge

CHEMICAL BUILD UP IN CITY SEWERLINE CAUSED THE SPILL.
TO RESOLVE THIS SITAUTION USED JETT TRUCK TO UNSTOPP
CITY SEWERLINE CURRENT STATUS OPEN AND RUNNING.

Affected Body of Water (if applicable): _____

Has the Virginia Department of Health (VDH) Been Notified? Yes No

(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped and you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Unauthorized Discharge & Overflow Report
Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: 05262017- 1 **Reported To:** 804 527-5127
Patrick Bishop

Date Reported: 5-26-17 **Time:** 6:00 am **Reported by:** F. Satterwhite
Southside Central

Receiving Facility Name Wastewater Authority WWTF **Permit No.:** VA 0025437

Owner of Conveyance Petersburg Public Utilities
(if different from receiving facility)

Address: 424 St. Andrews St.

County/City: Petersburg, VA **Zip:** 23803

Contact at Scene: Fred Satterwhite **Telephone No.:** 804-400-9518

Date of Incident 5-26-17 **Time of Incident:** 6:00am – 6:20am

Length of Time Discharge Continued: 20 minutes

Volume of Discharge (gal): 200 gals.

Description of Nature and Location of Discharge

East Bank Street pump station – control failure due to power surge caused surcharging of station manhole.

Affected Body of Water (if applicable): _____

Has the Virginia Department of Health (VDH) Been Notified? Yes No

(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped **and** you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

**Appendix C. Record of Land
Disturbance Projects**

Petersburg Development Projects – 2017

1. Brasfield Infrastructure, 151 Wagner Road, Tax Parcel 082-01-0001 (Part of), 0.39 acres
2. Brasfield Wetland Mitigation, 301 Wagner Road, Tax Parcel 082-01-0001 (Part of), 20.11 acres
3. Brenco WWTP Upgrades – Pipe Installation, 2580 Frontage Road, Tax Parcel 057-06-0001, 0.34 acres
4. Cavalier Apartments II, 200 Cavalier Drive, Tax Parcel 081-05-0806, 7.79 acres
5. Commerce Street Lofts, 1131-1135 Commerce Street, Tax Parcel 024-15-0015, 1.40 acres, Adaptive re-use as residential
6. Ivy Gates Apartments ESC Plan, 101 Ivy Lane, Tax Parcel 044-35-0015, 0.18 acres, Slope stabilization (ESC Plan only)
7. Sheetz at Petersburg, 151 Wagner Road, Tax Parcel 082-01-0001 (Part of), 2.74 acres, Commercial
8. Saint Joseph Parish Hall, 151 West Washington Street, Tax Parcel 022-02-0001, 022-02-0003, & 022-02-0004, 1.17 acres, New building and site/parking improvements

Appendix D. DPW Record of Operation & Maintenance on Storm Sewers

The Department of Public Works Operations Division keeps records on their storm water sewer maintenance work and their street sweeping program. They have reported the following City expenses for sweeping and drain cleaning for the 2016-2017 Fiscal Year (July 1, 2016 through June 30, 2017).

| | |
|---|---------------------|
| Street Cleaning (Machine Sweeping) | \$42,589.46 |
| Clean & Reshape Ditches by Hand | \$448.20 |
| Clean Ditches | \$8,823.09 |
| Clean & Reshape Ditches by Backhoe | \$20,785.15 |
| Clean & Reshape Ditches by Grader | \$597.78 |
| Storm Drain Cleaning (Clean Catch Basins) | \$101,122.99 |
| Clean & Unstop Culverts | \$4,510.96 |
| Clean & Unstop Catch Basins | \$24,384.58 |
| Total | \$203,962.75 |

Appendix E. WLA Calculations & Results Summary

CITY OF PETERSBURG

WLA Calculations and Results Summary

The following calculations were performed in accordance with the Section IB Special Conditions of General Permit for Discharges from Small Municipal Separate Storm Sewer Systems.

Background Information:

| | |
|--|---------------------------|
| Total area within Petersburg City limits: | 14,669 acres |
| Total drainage area to Appomattox River: | 9,820 acres |
| Total drainage area to other outfalls: | 4,849 acres |
| Percentage of impervious area within Appomattox River watersheds: | 40% |
| Total Rainfall 07-01-2016 to 06-30-2017: | 31.68 inches (Attachment) |

Calculations:

Estimated Volume of Stormwater Discharged

$$\text{Annual Runoff, ft}^3 = (\% \text{ impervious, as a decimal}) * (\text{Annual Precipitation, ft}) * (\text{MS4 Area, ft}^2)$$

Estimate of Colony Forming Units of E. Coli

$$\text{Annual Fecal Coliform Load (cfu/year)} = 103 * (\text{Annual Runoff, in}) * (15,000/\text{ml}) * (\text{area, ac})$$

$$E. \text{ Coli} = 2^{(-0.0172 + 0.91905 * \text{Log}_2(\text{annual fecal coliform load, cfu/year}))}$$

Table 1. Estimated Volume of Stormwater and E. coli Discharged by the City of Petersburg to Impaired Water Segment: Appomattox River (2)

| MS4 Watershed | Drainage Area | | Est. Volume Stormwater (ft ³) | Fecal Coliform (cfu/yr) | E. Coli (cfu/yr) |
|-----------------------|--------------------|--------------|--|----------------------------|---------------------|
| | (sf) | (ac) | | | |
| Appomattox Riverfront | 11,087,378 | 255 | 11,708,271 | 4.98E+09 | 8.08E+08 |
| Rohoic Creek | 56,008,665 | 1,286 | 59,145,150 | 2.52E+10 | 3.58E+09 |
| Brickhouse Run | 61,756,897 | 1,418 | 65,215,283 | 2.78E+10 | 3.92E+09 |
| Cross Street | 2,889,637 | 66 | 3,051,457 | 1.30E+09 | 2.35E+08 |
| Fleet Street East | 948,610 | 22 | 1,001,732 | 4.26E+08 | 8.43E+07 |
| Fleet Street West | 2,664,290 | 61 | 2,813,490 | 1.20E+09 | 2.18E+08 |
| Anchor Sheds | 4,751,500 | 109 | 5,017,584 | 2.14E+09 | 3.71E+08 |
| Battersea | 5,357,484 | 123 | 5,657,503 | 2.41E+09 | 4.14E+08 |
| West Street | 3,539,115 | 81 | 3,737,305 | 1.59E+09 | 2.83E+08 |
| Total | 149,003,576 | 3,421 | 157,347,776 | 6.70E+10 | 9.91E+09 |

Table 2. Estimated Volume of Stormwater and E. coli Discharged by the City of Petersburg to Impaired Water Segment: Appomattox (3) - Tidal

| MS4 Watershed | Drainage Area | | Est. Volume Stormwater (ft ³) | Fecal Coliform (cfu/yr) | E. Coli (cfu/yr) |
|------------------------|--------------------|--------------|--|----------------------------|---------------------|
| | (sf) | (ac) | | | |
| Harrison Creek | 41,189,178 | 946 | 43,495,772 | 1.85E+10 | 2.70E+09 |
| River Street | 3,190,033 | 73 | 3,368,675 | 1.43E+09 | 2.57E+08 |
| Old Church Street | 2,746,976 | 63 | 2,900,807 | 1.23E+09 | 2.24E+08 |
| Pocahontas | 2,428,607 | 56 | 2,564,609 | 1.09E+09 | 2.00E+08 |
| Poor Creek (Poe Creek) | 74,461,773 | 1,709 | 78,631,632 | 3.35E+10 | 4.65E+09 |
| Lieutenant Run | 154,739,404 | 3,552 | 163,404,811 | 6.95E+10 | 9.11E+09 |
| Total | 278,755,971 | 6,399 | 294,366,305 | 1.25E+11 | 1.71E+10 |

TODAY'S MORTGAGE RATES **3.04% APR** 15-YEAR FIXED

Select Loan Amount **\$225,000**

Calculate Your Mortgage Payment

Petersburg, VA

Dinwiddie County

© 2:30 PM EST on January 30, 2018 (GMT -0500)

Weather History for KPTB - July, 2016

From:

July

1

2016

To:

June

30

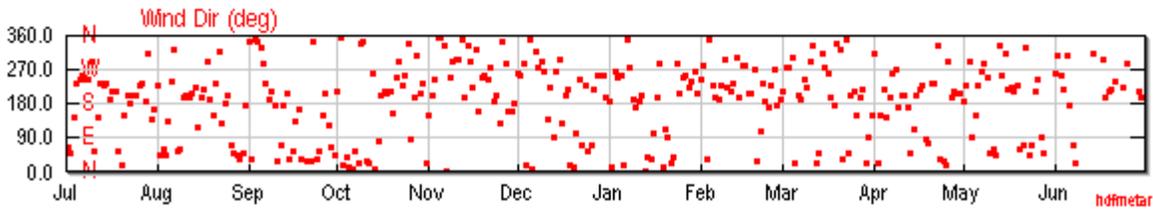
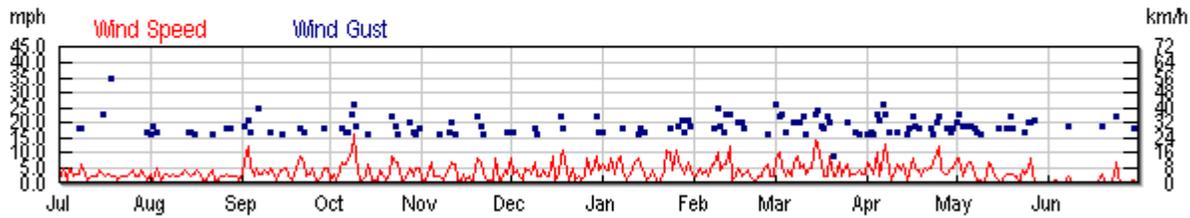
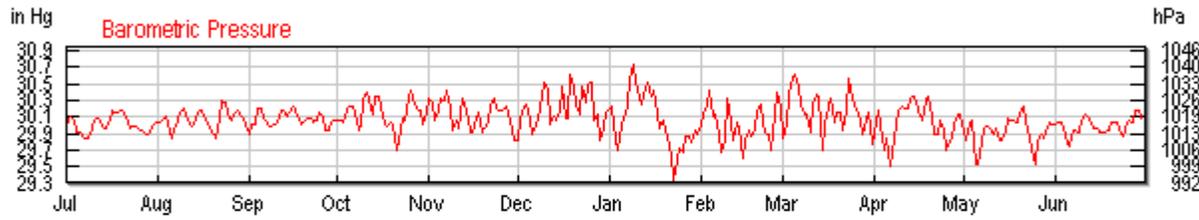
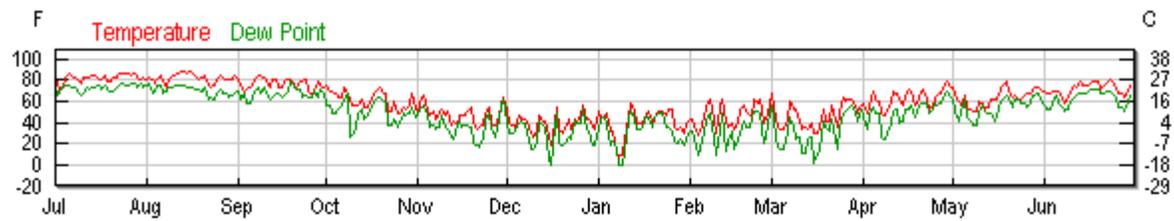
2017

Get History

| | | | |
|-------|--------|---------|---------------|
| Daily | Weekly | Monthly | Custom |
|-------|--------|---------|---------------|

| | Max | Avg | Min | Sum |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|
| Temperature | | | | |
| Max Temperature | 98 °F | 71 °F | 24 °F | |
| Mean Temperature | 88 °F | 60 °F | 8 °F | |
| Min Temperature | 80 °F | 49 °F | -7 °F | |
| Degree Days | | | | |
| Heating Degree Days (base 65) | 56 | 10 | 0 | 3677 |
| Cooling Degree Days (base 65) | 23 | 5 | 0 | 1802 |
| Growing Degree Days (base 50) | 38 | 13 | 0 | 4829 |
| Dew Point | | | | |
| Dew Point | 85 °F | 49 °F | -14 °F | |
| Precipitation | | | | |
| Precipitation | 3.13 in | 0.09 in | 0.00 in | 31.68 in |
| Snowdepth | - | - | - | - |
| Wind | | | | |
| Wind | 30 mph | 4 mph | 0 mph | |
| Gust Wind | 44 mph | 19 mph | 9 mph | |
| Sea Level Pressure | | | | |
| Sea Level Pressure | 30.85 in | 30.07 in | 29.25 in | |

Custom Weather History Graph



Search for Another Location

Airport or City:

Submit

Trip Planner

Search our weather history database for the weather conditions in past years. The results will help you decide how hot, cold, wet, or windy it might be!

Date:

July

1

Submit

Weather History & Observations

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|-----|-----|----------------|-----|-----|--------------|-----|-----|-----------------------|-------|-------|-----------------|-----|-----|------------|-----|------|--------------|---------------------------|
| | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |
| Jul | 86 | 76 | 67 | 79 | 74 | 67 | 100 | 82 | 65 | 30.03 | 29.96 | 29.90 | 10 | 9 | 0 | 9 | 1 | - | 0.00 | Fog , Rain , Thunderstorm |
| | 85 | 78 | 70 | 75 | 66 | 62 | 100 | 67 | 47 | 30.11 | 30.05 | 29.97 | 10 | 8 | 0 | 10 | 3 | - | 0.00 | Fog |
| | 74 | 70 | 66 | 71 | 68 | 65 | 100 | 94 | 74 | 30.14 | 30.11 | 30.07 | 10 | 7 | 2 | 13 | 5 | 16 | 0.00 | Rain |
| | 77 | 74 | 72 | 77 | 75 | 72 | 100 | 97 | 89 | 30.13 | 30.07 | 29.95 | 10 | 7 | 2 | 9 | 1 | - | 0.00 | Rain |
| | 92 | 82 | 73 | 80 | 76 | 73 | 100 | 79 | 54 | 29.94 | 29.91 | 29.87 | 10 | 9 | 2 | 17 | 5 | 23 | 0.00 | Rain |
| | 94 | 86 | 77 | 80 | 75 | 70 | 100 | 74 | 47 | 29.95 | 29.91 | 29.87 | 10 | 8 | 0 | 10 | 2 | - | 0.00 | Fog , Thunderstorm |
| | 94 | 84 | 75 | 79 | 73 | 69 | 100 | 68 | 44 | 29.91 | 29.86 | 29.81 | 10 | 8 | 1 | 12 | 3 | 15 | 0.16 | Rain , Thunderstorm |
| | 93 | 83 | 73 | 78 | 73 | 67 | 100 | 66 | 47 | 29.88 | 29.84 | 29.80 | 10 | 9 | 4 | 15 | 3 | 20 | 0.16 | Rain , Thunderstorm |
| | 92 | 81 | 70 | 74 | 70 | 66 | 100 | 73 | 41 | 29.89 | 29.85 | 29.81 | 10 | 10 | 7 | 12 | 6 | 18 | 0.00 | |
| | 89 | 77 | 65 | 74 | 65 | 62 | 100 | 64 | 41 | 30.04 | 29.97 | 29.89 | 10 | 10 | 7 | 8 | 3 | - | 0.00 | |
| | 90 | 82 | 73 | 74 | 67 | 62 | 100 | 60 | 39 | 30.11 | 30.07 | 30.03 | 10 | 9 | 7 | 9 | 1 | - | 0.00 | |
| | 89 | 82 | 75 | 77 | 74 | 70 | 100 | 75 | 53 | 30.13 | 30.08 | 30.03 | 10 | 9 | 5 | 8 | 2 | - | 0.00 | Rain |
| | 92 | 82 | 72 | 77 | 72 | 68 | 100 | 73 | 46 | 30.08 | 30.04 | 29.98 | 10 | 9 | 2 | 13 | 2 | 22 | 0.00 | Rain |
| | 97 | 84 | 71 | 79 | 73 | 67 | 100 | 68 | 37 | 30.03 | 29.97 | 29.91 | 10 | 10 | 7 | 12 | 2 | - | 0.00 | |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|-----|-----|----------------|-----|-----|--------------|-----|-----|-----------------------|-------|-------|-----------------|-----|-----|------------|-----|------|--------------|---------------------------|
| | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |
| | 95 | 84 | 73 | 80 | 73 | 67 | 100 | 72 | 41 | 30.08 | 29.97 | 29.92 | 10 | 9 | 1 | 15 | 4 | 18 | 1.75 | Rain , Thunderstorm |
| | 87 | 81 | 72 | 78 | 75 | 69 | 100 | 82 | 66 | 30.15 | 30.07 | 30.01 | 10 | 9 | 1 | 16 | 3 | 23 | 0.00 | Rain , Thunderstorm |
| | 89 | 81 | 73 | 79 | 72 | 68 | 100 | 68 | 50 | 30.21 | 30.17 | 30.11 | 10 | 10 | 5 | 7 | 2 | - | 0.00 | Rain |
| | 94 | 84 | 74 | 80 | 75 | 72 | 100 | 68 | 49 | 30.20 | 30.15 | 30.07 | 10 | 9 | 1 | 12 | 3 | 16 | 0.00 | |
| | 90 | 79 | 68 | 78 | 71 | 67 | 100 | 69 | 50 | 30.20 | 30.15 | 30.08 | 10 | 9 | 2 | 26 | 2 | 37 | 0.64 | Rain , Thunderstorm |
| | 88 | 79 | 70 | 75 | 69 | 64 | 100 | 68 | 44 | 30.20 | 30.17 | 30.13 | 10 | 9 | 5 | 8 | 2 | - | 0.00 | |
| | 89 | 82 | 74 | 76 | 69 | 64 | 100 | 64 | 44 | 30.21 | 30.16 | 30.10 | 10 | 8 | 1 | 7 | 1 | - | 0.00 | |
| | 93 | 83 | 73 | 81 | 74 | 68 | 100 | 73 | 44 | 30.12 | 30.03 | 29.95 | 10 | 9 | 5 | 10 | 2 | - | 0.00 | |
| | 95 | 86 | 76 | 82 | 75 | 72 | 100 | 68 | 48 | 29.99 | 29.96 | 29.91 | 10 | 9 | 3 | 7 | 2 | - | 0.00 | |
| | 96 | 86 | 76 | 81 | 77 | 74 | 100 | 71 | 48 | 30.01 | 29.99 | 29.96 | 10 | 9 | 4 | 8 | 2 | - | 0.00 | |
| | 97 | 87 | 77 | 79 | 76 | 73 | 100 | 67 | 46 | 30.03 | 29.98 | 29.90 | 10 | 9 | 5 | 10 | 3 | - | 0.00 | |
| | 96 | 86 | 76 | 79 | 75 | 71 | 100 | 73 | 46 | 30.00 | 29.95 | 29.91 | 10 | 10 | 7 | 12 | 4 | 24 | 0.00 | Rain |
| | 94 | 84 | 75 | 85 | 77 | 74 | 100 | 77 | 53 | 29.99 | 29.95 | 29.90 | 10 | 9 | 4 | 8 | 2 | - | 0.00 | Rain , Thunderstorm |
| | 96 | 86 | 76 | 82 | 77 | 74 | 100 | 71 | 55 | 29.95 | 29.88 | 29.78 | 10 | 9 | 2 | 9 | 2 | - | 0.00 | Rain , Thunderstorm |
| | 89 | 82 | 76 | 79 | 73 | 68 | 100 | 75 | 51 | 29.97 | 29.89 | 29.81 | 10 | 10 | 7 | 12 | 4 | - | 0.00 | Rain |
| | 85 | 81 | 76 | 80 | 77 | 74 | 100 | 88 | 71 | 30.01 | 29.97 | 29.94 | 10 | 8 | 1 | 10 | 2 | 17 | 0.00 | Rain , Thunderstorm |
| | 92 | 82 | 71 | 79 | 74 | 71 | 100 | 74 | 55 | 30.10 | 30.01 | 29.94 | 10 | 7 | 0 | 13 | 1 | 18 | 1.06 | Fog , Rain , Thunderstorm |
| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
| Aug | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |
| | 90 | 80 | 71 | 82 | 75 | 72 | 100 | 77 | 57 | 30.07 | 30.03 | 29.99 | 10 | 9 | 2 | 13 | 3 | 16 | 0.08 | Rain |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|----|----|----------------|----|----|--------------|----|----|-----------------------|-------|-------|-----------------|----|----|------------|---|----|--------------|------------------------|
| | 88 | 82 | 76 | 81 | 77 | 72 | 100 | 88 | 61 | 30.07 | 30.03 | 29.99 | 10 | 7 | 1 | 16 | 1 | 21 | 0.08 | Rain , Thunderstorm |
| | 86 | 80 | 72 | 76 | 68 | 66 | 100 | 67 | 55 | 30.12 | 30.09 | 30.04 | 10 | 9 | 4 | 14 | 5 | 18 | 0.00 | |
| | 85 | 77 | 69 | 74 | 70 | 66 | 100 | 80 | 53 | 30.14 | 30.10 | 30.07 | 10 | 10 | 7 | 10 | 3 | - | 0.00 | Rain |
| | 85 | 80 | 74 | 81 | 75 | 73 | 100 | 83 | 69 | 30.07 | 30.01 | 29.92 | 10 | 10 | 5 | 6 | 1 | - | 0.00 | Rain |
| | 93 | 85 | 76 | 83 | 75 | 72 | 100 | 69 | 51 | 29.92 | 29.85 | 29.79 | 10 | 9 | 5 | 8 | 3 | 20 | 0.00 | Rain , Thunderstorm |
| | 86 | 79 | 72 | 76 | 68 | 57 | 100 | 69 | 38 | 29.99 | 29.94 | 29.85 | 10 | 10 | 7 | 9 | 3 | - | 0.00 | |
| | 77 | 74 | 70 | 75 | 69 | 65 | 100 | 85 | 70 | 30.13 | 30.06 | 29.99 | 10 | 10 | 7 | 13 | 2 | 17 | 0.00 | Rain |
| | 90 | 80 | 70 | 78 | 74 | 70 | 100 | 84 | 57 | 30.21 | 30.16 | 30.13 | 10 | 9 | 4 | 7 | 3 | - | 0.00 | Rain |
| | 91 | 84 | 75 | 79 | 74 | 71 | 100 | 68 | 52 | 30.24 | 30.20 | 30.16 | 10 | 8 | 0 | 7 | 2 | - | 0.00 | Fog |
| | 92 | 85 | 78 | 80 | 75 | 73 | 100 | 66 | 53 | 30.19 | 30.14 | 30.06 | 10 | 9 | 3 | 8 | 2 | - | 0.00 | |
| | 94 | 86 | 78 | 82 | 76 | 72 | 100 | 71 | 50 | 30.07 | 30.02 | 29.95 | 10 | 10 | 7 | 10 | 3 | - | 0.00 | |
| | 96 | 88 | 80 | 81 | 76 | 73 | 100 | 69 | 48 | 30.02 | 29.99 | 29.94 | 10 | 10 | 7 | 10 | 4 | 17 | 0.00 | |
| | 98 | 88 | 77 | 83 | 76 | 69 | 100 | 74 | 39 | 30.13 | 30.06 | 30.01 | 10 | 10 | 7 | 10 | 3 | 17 | 0.00 | |
| | 97 | 86 | 75 | 78 | 74 | 70 | 100 | 71 | 41 | 30.25 | 30.16 | 30.13 | 10 | 10 | 1 | 13 | 2 | 17 | 0.00 | Rain , Thunderstorm |
| | 96 | 88 | 79 | 80 | 74 | 71 | 100 | 64 | 45 | 30.23 | 30.18 | 30.11 | 10 | 9 | 4 | 12 | 3 | 16 | 0.00 | Rain |
| | 95 | 86 | 76 | 78 | 74 | 70 | 100 | 73 | 44 | 30.16 | 30.11 | 30.03 | 10 | 10 | 7 | 9 | 4 | - | 0.00 | Rain |
| | 90 | 82 | 74 | 78 | 72 | 66 | 100 | 75 | 46 | 30.08 | 30.04 | 29.98 | 10 | 10 | 7 | 9 | 3 | - | 0.00 | Rain , Thunderstorm |
| | 86 | 80 | 74 | 76 | 71 | 67 | 100 | 72 | 52 | 30.01 | 29.97 | 29.92 | 10 | 9 | 5 | 9 | 1 | - | 0.00 | Rain |
| | 91 | 82 | 74 | 76 | 69 | 62 | 100 | 64 | 39 | 29.95 | 29.90 | 29.84 | 10 | 9 | 1 | 6 | 1 | - | 0.00 | |
| | 94 | 84 | 74 | 78 | 74 | 68 | 100 | 76 | 43 | 29.93 | 29.85 | 29.77 | 10 | 9 | 4 | 18 | 3 | 24 | 0.00 | Rain , Thunderstorm |
| | 87 | 76 | 64 | 78 | 62 | 54 | 100 | 63 | 33 | 30.22 | 30.08 | 29.93 | 10 | 10 | 10 | 10 | 4 | 16 | 0.00 | |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|-----|-----|----------------|-----|-----|--------------|-----|-----|-----------------------|-------|-------|-----------------|-----|-----|------------|-----|-----|--------------|--------|
| | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | sum | |
| | 85 | 74 | 63 | 68 | 63 | 58 | 100 | 65 | 41 | 30.33 | 30.29 | 30.22 | 10 | 10 | 7 | 7 | 1 | - | 0.00 | |
| | 88 | 76 | 63 | 67 | 62 | 59 | 100 | 60 | 38 | 30.34 | 30.27 | 30.19 | 10 | 10 | 7 | 7 | 1 | - | 0.00 | |
| | 93 | 80 | 66 | 74 | 68 | 64 | 100 | 67 | 42 | 30.21 | 30.13 | 30.05 | 10 | 10 | 7 | 9 | 2 | - | 0.00 | |
| | 97 | 84 | 72 | 79 | 72 | 65 | 100 | 67 | 36 | 30.10 | 30.06 | 30.03 | 10 | 9 | 5 | 12 | 2 | 16 | 0.00 | |
| | 96 | 83 | 69 | 80 | 67 | 59 | 100 | 53 | 32 | 30.19 | 30.12 | 30.08 | 10 | 8 | 4 | 13 | 3 | 18 | 0.00 | |
| | 92 | 80 | 69 | 76 | 67 | 63 | 100 | 63 | 39 | 30.23 | 30.18 | 30.13 | 10 | 10 | 7 | 12 | 2 | 21 | 0.00 | |
| | 92 | 80 | 67 | 72 | 63 | 57 | 100 | 56 | 31 | 30.19 | 30.14 | 30.08 | 10 | 9 | 2 | 10 | 2 | - | 0.00 | |
| | 95 | 81 | 67 | 71 | 66 | 59 | 100 | 58 | 31 | 30.13 | 30.08 | 30.01 | 10 | 10 | 7 | 12 | 2 | 16 | 0.00 | |
| | 92 | 84 | 75 | 76 | 67 | 63 | 99 | 57 | 40 | 30.06 | 29.98 | 29.89 | 10 | 9 | 3 | 7 | 1 | - | 0.00 | |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|-----|-----|----------------|-----|-----|--------------|-----|-----|-----------------------|-------|-------|-----------------|-----|-----|------------|-----|-----|--------------|------------------------|
| | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | sum | |
| Sep | 88 | 80 | 72 | 75 | 69 | 66 | 100 | 67 | 49 | 29.98 | 29.89 | 29.85 | 10 | 10 | 7 | 14 | 3 | 17 | 0.00 | |
| | 82 | 75 | 68 | 72 | 62 | 55 | 100 | 66 | 44 | 30.08 | 30.02 | 29.96 | 10 | 10 | 7 | 16 | 7 | 22 | 0.00 | Rain |
| | 72 | 69 | 66 | 70 | 67 | 63 | 100 | 88 | 75 | 30.13 | 30.01 | 29.90 | 10 | 9 | 3 | 20 | 12 | 30 | 0.00 | Rain |
| | 81 | 72 | 62 | 64 | 59 | 52 | 100 | 67 | 37 | 30.25 | 30.20 | 30.14 | 10 | 10 | 10 | 13 | 5 | 18 | 0.00 | |
| | 85 | 74 | 63 | 68 | 59 | 54 | 98 | 53 | 35 | 30.25 | 30.20 | 30.13 | 10 | 10 | 7 | 10 | 2 | - | 0.00 | |
| | 91 | 76 | 61 | 72 | 62 | 57 | 100 | 67 | 32 | 30.15 | 30.09 | 30.04 | 10 | 10 | 7 | 13 | 5 | 20 | 0.00 | |
| | 91 | 80 | 69 | 78 | 70 | 64 | 100 | 74 | 48 | 30.13 | 30.06 | 30.00 | 10 | 9 | 3 | 13 | 3 | 30 | 0.00 | Rain , Thunderstorm |
| | 93 | 84 | 75 | 78 | 74 | 70 | 100 | 72 | 47 | 30.03 | 29.99 | 29.93 | 10 | 9 | 4 | 8 | 3 | - | 0.00 | Rain |
| | 97 | 84 | 72 | 74 | 68 | 63 | 100 | 62 | 32 | 30.04 | 29.99 | 29.95 | 10 | 10 | 7 | 10 | 4 | - | 0.00 | |
| | 90 | 82 | 73 | 77 | 73 | 70 | 100 | 75 | 57 | 30.08 | 30.02 | 29.97 | 10 | 10 | 7 | 8 | 3 | 16 | 0.00 | |
| | 88 | 78 | 68 | 76 | 67 | 58 | 100 | 66 | 45 | 30.14 | 30.04 | 29.96 | 10 | 10 | 7 | 13 | 5 | 17 | 0.00 | |
| | 87 | 74 | 61 | 68 | 61 | 55 | 100 | 66 | 35 | 30.22 | 30.18 | 30.13 | 10 | 10 | 7 | 9 | 2 | - | 0.00 | |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|-----|-----|----------------|-----|-----|--------------|-----|-----|-----------------------|-------|-------|-----------------|-----|-----|------------|-----|------|--------------|---------------------------|
| | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | sum | |
| | 90 | 80 | 69 | 70 | 64 | 59 | 100 | 57 | 36 | 30.25 | 30.18 | 30.11 | 10 | 10 | 7 | 8 | 1 | - | 0.00 | |
| | 94 | 81 | 68 | 70 | 67 | 61 | 100 | 68 | 34 | 30.16 | 30.11 | 30.03 | 10 | 10 | 7 | 12 | 4 | 16 | 0.00 | |
| | 79 | 74 | 68 | 71 | 67 | 62 | 100 | 77 | 65 | 30.24 | 30.16 | 30.09 | 10 | 9 | 5 | 13 | 4 | 17 | 0.00 | |
| | 82 | 74 | 65 | 67 | 63 | 60 | 100 | 75 | 47 | 30.27 | 30.23 | 30.20 | 10 | 10 | 7 | 10 | 5 | - | 0.00 | |
| | 89 | 79 | 69 | 72 | 66 | 61 | 100 | 64 | 40 | 30.24 | 30.18 | 30.11 | 10 | 9 | 1 | 8 | 2 | - | 0.00 | |
| | 91 | 81 | 71 | 77 | 70 | 66 | 100 | 62 | 45 | 30.12 | 30.06 | 29.98 | 10 | 7 | 0 | 8 | 1 | - | 0.00 | Fog , Rain |
| | 80 | 80 | 77 | 80 | 78 | 77 | 100 | 96 | 89 | 30.05 | 30.00 | 29.96 | 10 | 8 | 0 | 21 | 3 | 24 | 0.00 | Rain , Thunderstorm |
| | - | - | - | - | - | - | - | - | - | 30.08 | 30.06 | 30.02 | 10 | 9 | 2 | 13 | 8 | 18 | 0.00 | Rain |
| | 75 | 74 | 72 | 74 | 71 | 68 | 100 | 88 | 78 | 30.12 | 30.09 | 30.05 | 10 | 9 | 2 | 14 | 9 | 20 | 0.00 | Rain |
| | 81 | 78 | 74 | 76 | 72 | 70 | 100 | 82 | 69 | 30.12 | 30.08 | 30.05 | 10 | 8 | 2 | 14 | 7 | 18 | 0.00 | Rain |
| | 86 | 78 | 70 | 72 | 64 | 59 | 100 | 60 | 40 | 30.10 | 30.04 | 29.99 | 10 | 8 | 2 | 7 | 2 | - | 0.00 | |
| | 90 | 81 | 71 | 74 | 66 | 64 | 99 | 62 | 41 | 30.13 | 30.05 | 30.01 | 10 | 8 | 0 | 15 | 3 | 21 | 0.00 | Fog , Rain |
| | 74 | 70 | 66 | 70 | 63 | 57 | 100 | 80 | 55 | 30.20 | 30.16 | 30.13 | 10 | 10 | 7 | 10 | 5 | - | 0.00 | Rain |
| | 73 | 68 | 64 | 66 | 63 | 59 | 100 | 82 | 62 | 30.17 | 30.11 | 30.02 | 10 | 10 | 10 | 10 | 1 | - | 0.00 | Rain |
| | 72 | 70 | 68 | 71 | 69 | 65 | 100 | 93 | 78 | 30.00 | 29.95 | 29.90 | 10 | 6 | 0 | 6 | 1 | - | 0.12 | Fog , Rain |
| | 82 | 78 | 70 | 73 | 63 | 60 | 96 | 61 | 47 | 30.00 | 29.95 | 29.91 | 10 | 6 | 0 | 15 | 2 | 20 | 0.71 | Fog , Rain , Thunderstorm |
| | 76 | 76 | 75 | 75 | 71 | 68 | 98 | 85 | 76 | 30.10 | 30.04 | 29.98 | 10 | 8 | 2 | 15 | 5 | 20 | 0.46 | Rain , Thunderstorm |
| | 75 | 74 | 71 | 73 | 68 | 63 | 100 | 82 | 67 | 30.10 | 30.06 | 30.01 | 10 | 6 | 1 | 10 | 5 | - | 0.50 | Rain , Thunderstorm |
| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
| Oct | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |
| | 81 | 76 | 68 | 73 | 56 | 47 | 95 | 50 | 32 | 30.08 | 30.05 | 30.03 | 10 | 8 | 1 | 6 | 1 | - | 0.02 | Rain |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|----|----|----------------|----|----|--------------|----|----|-----------------------|-------|-------|-----------------|----|----|------------|----|----|--------------|------------|
| | 73 | 70 | 67 | 68 | 57 | 54 | 100 | 62 | 52 | 30.10 | 30.06 | 30.02 | 10 | 6 | 0 | 7 | 3 | - | 0.00 | Fog , Rain |
| | 78 | 70 | 61 | 64 | 48 | 38 | 99 | 45 | 24 | 30.11 | 30.04 | 29.99 | 10 | 8 | 2 | 9 | 1 | - | 0.00 | |
| | 76 | 68 | 61 | 59 | 48 | 42 | 90 | 48 | 32 | 30.23 | 30.18 | 30.11 | 10 | 9 | 3 | 14 | 4 | 20 | 0.00 | |
| | 70 | 64 | 59 | 61 | 52 | 46 | 100 | 67 | 42 | 30.26 | 30.23 | 30.21 | 10 | 10 | 7 | 14 | 7 | 18 | 0.00 | |
| | 70 | 64 | 59 | 64 | 56 | 53 | 100 | 70 | 53 | 30.27 | 30.24 | 30.22 | 10 | 9 | 5 | 13 | 6 | 17 | 0.10 | Rain |
| | 80 | 74 | 69 | 69 | 61 | 57 | 98 | 65 | 44 | 30.22 | 30.14 | 30.06 | 10 | 9 | 3 | 13 | 8 | 17 | 0.02 | Rain |
| | 69 | 68 | 68 | 69 | 68 | 66 | 100 | 96 | 89 | 30.05 | 29.93 | 29.82 | 10 | 6 | 3 | 20 | 10 | 30 | 3.13 | Rain |
| | 68 | 62 | 55 | 40 | 27 | 17 | 56 | 28 | 14 | 30.21 | 29.99 | 29.79 | 10 | 9 | 3 | 23 | 16 | 36 | 0.97 | Rain |
| | 65 | 57 | 48 | 48 | 28 | 14 | 99 | 36 | 14 | 30.40 | 30.31 | 30.21 | 10 | 10 | 7 | 16 | 8 | 25 | 0.00 | |
| | 68 | 56 | 43 | 50 | 33 | 6 | 97 | 54 | 9 | 30.46 | 30.40 | 30.35 | 10 | 10 | 7 | 10 | 1 | - | 0.00 | |
| | 70 | 56 | 41 | 59 | 49 | 40 | 97 | 84 | 56 | 30.36 | 30.29 | 30.19 | 10 | 9 | 1 | 7 | 1 | - | 0.00 | |
| | 77 | 62 | 47 | 60 | 53 | 46 | 98 | 80 | 43 | 30.23 | 30.14 | 30.07 | 10 | 7 | 0 | 14 | 2 | 22 | 0.00 | Fog , Rain |
| | 66 | 54 | 43 | 52 | 44 | 40 | 97 | 68 | 39 | 30.39 | 30.34 | 30.23 | 10 | 10 | 10 | 12 | 6 | 17 | 0.00 | |
| | 69 | 55 | 41 | 52 | 46 | 41 | 97 | 80 | 39 | 30.42 | 30.36 | 30.31 | 10 | 10 | 2 | 6 | 1 | - | 0.00 | |
| | 75 | 58 | 43 | 61 | 52 | 43 | 98 | 86 | 54 | 30.31 | 30.20 | 30.09 | 10 | 7 | 0 | 8 | 1 | - | 0.00 | Fog , Rain |
| | 82 | 66 | 51 | 65 | 58 | 50 | 97 | 81 | 45 | 30.10 | 30.02 | 29.95 | 10 | 8 | 2 | 7 | 1 | - | 0.00 | Rain |
| | 83 | 70 | 58 | 65 | 61 | 57 | 96 | 77 | 47 | 30.03 | 29.99 | 29.94 | 10 | 10 | 5 | 10 | 4 | - | 0.00 | |
| | 86 | 73 | 60 | 71 | 63 | 59 | 97 | 80 | 43 | 30.08 | 30.03 | 30.00 | 10 | 9 | 0 | 7 | 2 | - | 0.00 | Fog |
| | 83 | 70 | 57 | 67 | 62 | 57 | 98 | 81 | 49 | 30.07 | 30.01 | 29.92 | 10 | 7 | 0 | 7 | 1 | - | 0.00 | Fog |
| | 79 | 67 | 55 | 65 | 60 | 49 | 97 | 81 | 55 | 29.92 | 29.70 | 29.59 | 10 | 9 | 0 | 10 | 3 | 17 | 0.01 | Fog , Rain |
| | 63 | 50 | 37 | 54 | 37 | 26 | 89 | 54 | 25 | 29.99 | 29.79 | 29.61 | 10 | 10 | 7 | 20 | 9 | 31 | 0.00 | Rain |
| | 67 | 50 | 34 | 44 | 38 | 33 | 92 | 65 | 34 | 30.16 | 30.08 | 29.99 | 10 | 10 | 10 | 15 | 7 | 21 | 0.00 | |
| | 75 | 60 | 44 | 54 | 44 | 40 | 92 | 56 | 28 | 30.23 | 30.07 | 30.01 | 10 | 10 | 10 | 12 | 7 | 16 | 0.00 | |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|-----|-----|----------------|-----|-----|--------------|-----|-----|-----------------------|-------|-------|-----------------|-----|-----|------------|-----|------|--------------|--------------|
| | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |
| | 63 | 48 | 33 | 46 | 36 | 30 | 97 | 73 | 30 | 30.40 | 30.32 | 30.24 | 10 | 10 | 7 | 10 | 1 | - | 0.00 | |
| | 62 | 48 | 34 | 48 | 39 | 33 | 97 | 76 | 41 | 30.46 | 30.41 | 30.35 | 10 | 10 | 7 | 7 | 1 | - | 0.00 | |
| | 72 | 54 | 37 | 59 | 49 | 36 | 97 | 81 | 53 | 30.38 | 30.25 | 30.12 | 10 | 10 | 7 | 14 | 3 | 20 | 0.00 | Thunderstorm |
| | 65 | 53 | 41 | 59 | 47 | 40 | 97 | 76 | 39 | 30.28 | 30.21 | 30.11 | 10 | 9 | 1 | 15 | 5 | 24 | 0.00 | |
| | 75 | 56 | 36 | 57 | 48 | 36 | 97 | 77 | 46 | 30.28 | 30.18 | 30.07 | 10 | 10 | 7 | 12 | 2 | 17 | 0.00 | Rain |
| | 82 | 67 | 53 | 59 | 55 | 52 | 95 | 72 | 37 | 30.10 | 30.01 | 29.93 | 10 | 10 | 7 | 13 | 5 | 20 | 0.00 | |
| | 64 | 52 | 40 | 57 | 45 | 39 | 97 | 71 | 41 | 30.28 | 30.16 | 29.99 | 10 | 10 | 10 | 15 | 5 | 20 | 0.00 | Rain |
| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
| Nov | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |
| | 61 | 50 | 40 | 51 | 47 | 39 | 97 | 84 | 59 | 30.36 | 30.32 | 30.28 | 10 | 10 | 10 | 5 | 1 | - | 0.00 | Rain |
| | 77 | 63 | 49 | 64 | 55 | 48 | 97 | 83 | 52 | 30.33 | 30.27 | 30.19 | 10 | 8 | 0 | 7 | 1 | - | 0.00 | Fog |
| | 82 | 66 | 50 | 62 | 56 | 49 | 97 | 75 | 35 | 30.19 | 30.06 | 29.97 | 10 | 7 | 0 | 13 | 3 | - | 0.13 | Fog , Rain |
| | 65 | 50 | 37 | 61 | 46 | 35 | 96 | 71 | 35 | 30.29 | 30.17 | 29.99 | 10 | 10 | 7 | 15 | 7 | 23 | 0.09 | Rain |
| | 62 | 47 | 32 | 44 | 35 | 30 | 97 | 75 | 29 | 30.38 | 30.32 | 30.28 | 10 | 10 | 10 | 13 | 2 | - | 0.00 | |
| | 70 | 51 | 32 | 42 | 37 | 32 | 98 | 71 | 28 | 30.36 | 30.30 | 30.25 | 10 | 10 | 7 | 13 | 2 | 18 | 0.00 | Rain |
| | 58 | 44 | 30 | 39 | 34 | 30 | 98 | 74 | 37 | 30.49 | 30.42 | 30.37 | 10 | 10 | 10 | 12 | 2 | 16 | 0.00 | |
| | 68 | 48 | 28 | 48 | 36 | 27 | 97 | 75 | 26 | 30.37 | 30.21 | 30.02 | 10 | 10 | 7 | 8 | 1 | - | 0.00 | |
| | 61 | 52 | 42 | 52 | 47 | 41 | 97 | 85 | 69 | 30.04 | 29.95 | 29.88 | 10 | 9 | 5 | 14 | 3 | 20 | 0.03 | Rain |
| | 60 | 46 | 32 | 43 | 35 | 27 | 97 | 68 | 30 | 30.16 | 30.07 | 29.93 | 10 | 10 | 7 | 12 | 5 | 17 | 0.00 | |
| | 66 | 50 | 33 | 41 | 34 | 29 | 94 | 53 | 27 | 30.17 | 29.96 | 29.86 | 10 | 10 | 7 | 17 | 7 | 22 | 0.00 | |
| | 50 | 37 | 24 | 34 | 26 | 22 | 96 | 62 | 32 | 30.43 | 30.33 | 30.18 | 10 | 10 | 7 | 12 | 6 | 18 | 0.00 | |
| | 63 | 42 | 21 | 33 | 24 | 10 | 96 | 71 | 14 | 30.33 | 30.25 | 30.16 | 10 | 10 | 10 | 5 | 1 | - | 0.00 | |
| | 47 | 37 | 27 | 46 | 38 | 26 | 96 | 92 | 78 | 30.15 | 30.06 | 29.97 | 10 | 9 | 2 | 7 | 1 | - | 0.25 | Rain |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|----|----|----------------|----|----|--------------|----|----|-----------------------|-------|-------|-----------------|----|----|------------|---|----|--------------|------------|
| | 58 | 46 | 33 | 46 | 42 | 32 | 98 | 88 | 55 | 29.97 | 29.92 | 29.87 | 10 | 7 | 0 | 10 | 3 | - | 0.09 | Fog , Rain |
| | 64 | 46 | 29 | 46 | 36 | 29 | 99 | 79 | 32 | 30.00 | 29.92 | 29.88 | 10 | 8 | 4 | 8 | 1 | - | 0.00 | |
| | 63 | 47 | 31 | 44 | 37 | 31 | 99 | 79 | 37 | 30.16 | 30.09 | 29.99 | 10 | 7 | 3 | 12 | 2 | 16 | 0.00 | |
| | 70 | 50 | 31 | 52 | 38 | 31 | 99 | 81 | 35 | 30.24 | 30.15 | 30.08 | 10 | 8 | 3 | 5 | 0 | - | 0.00 | |
| | 75 | 54 | 33 | 50 | 35 | 22 | 98 | 64 | 31 | 30.08 | 29.92 | 29.73 | 10 | 8 | 1 | 21 | 4 | 36 | 0.00 | |
| | 49 | 40 | 30 | 26 | 20 | 17 | 73 | 46 | 28 | 30.00 | 29.97 | 29.91 | 10 | 10 | 10 | 20 | 8 | 26 | 0.00 | |
| | 48 | 34 | 20 | 24 | 18 | 12 | 89 | 57 | 23 | 30.13 | 30.03 | 29.97 | 10 | 10 | 7 | 17 | 7 | 23 | 0.00 | |
| | 54 | 35 | 16 | 23 | 16 | 6 | 93 | 62 | 15 | 30.33 | 30.24 | 30.13 | 10 | 10 | 10 | 12 | 3 | 16 | 0.00 | |
| | 55 | 38 | 21 | 32 | 24 | 17 | 95 | 67 | 23 | 30.39 | 30.32 | 30.27 | 10 | 10 | 10 | 5 | 1 | - | 0.00 | |
| | 65 | 48 | 32 | 54 | 41 | 29 | 97 | 81 | 59 | 30.28 | 30.21 | 30.14 | 10 | 8 | 0 | 7 | 1 | - | 0.00 | Fog , Rain |
| | 65 | 54 | 42 | 56 | 49 | 41 | 98 | 90 | 65 | 30.25 | 30.18 | 30.11 | 10 | 4 | 0 | 7 | 1 | - | 0.00 | Fog |
| | 54 | 40 | 26 | 52 | 35 | 24 | 97 | 68 | 36 | 30.24 | 30.18 | 30.10 | 10 | 10 | 5 | 14 | 8 | 22 | 0.00 | |
| | 52 | 38 | 24 | 32 | 26 | 22 | 96 | 75 | 30 | 30.30 | 30.24 | 30.19 | 10 | 10 | 10 | 8 | 1 | - | 0.00 | |
| | 52 | 40 | 28 | 43 | 33 | 27 | 96 | 78 | 47 | 30.24 | 30.16 | 30.05 | 10 | 10 | 7 | 7 | 1 | - | 0.00 | |
| | 68 | 57 | 46 | 63 | 55 | 43 | 98 | 86 | 67 | 30.05 | 29.93 | 29.84 | 10 | 8 | 0 | 16 | 4 | 25 | 0.24 | Fog , Rain |
| | 74 | 64 | 53 | 64 | 62 | 52 | 98 | 87 | 67 | 29.95 | 29.81 | 29.63 | 10 | 7 | 0 | 12 | 3 | 20 | 0.09 | Fog , Rain |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|-----|-----|----------------|-----|-----|--------------|-----|-----|-----------------------|-------|-------|-----------------|-----|-----|------------|-----|------|--------------|--------|
| Dec | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |
| | 67 | 52 | 36 | 64 | 40 | 31 | 91 | 60 | 35 | 30.00 | 29.82 | 29.62 | 10 | 10 | 2 | 15 | 8 | 20 | 0.13 | Rain |
| | 54 | 40 | 27 | 34 | 30 | 26 | 96 | 69 | 37 | 30.19 | 30.08 | 30.00 | 10 | 10 | 10 | 13 | 3 | 18 | 0.00 | |
| | 50 | 38 | 26 | 32 | 29 | 25 | 95 | 70 | 39 | 30.31 | 30.24 | 30.18 | 10 | 10 | 10 | 9 | 4 | - | 0.00 | |
| | 42 | 36 | 29 | 38 | 31 | 28 | 96 | 77 | 59 | 30.33 | 30.25 | 30.10 | 10 | 9 | 2 | 6 | 2 | - | 0.09 | Rain |
| | 52 | 46 | 39 | 43 | 40 | 38 | 97 | 91 | 66 | 30.12 | 30.05 | 29.99 | 10 | 8 | 1 | 8 | 1 | - | 0.24 | Rain |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|----|----|----------------|----|-----|--------------|----|----|-----------------------|-------|-------|-----------------|----|----|------------|----|----|--------------|------------|
| | 46 | 44 | 41 | 45 | 42 | 40 | 97 | 94 | 88 | 30.12 | 29.90 | 29.68 | 10 | 7 | 2 | 15 | 5 | 21 | 1.24 | Rain |
| | 55 | 44 | 32 | 42 | 39 | 32 | 97 | 85 | 50 | 30.10 | 30.02 | 29.83 | 10 | 10 | 5 | 10 | 4 | - | 0.02 | |
| | 52 | 42 | 32 | 42 | 30 | 17 | 98 | 69 | 28 | 30.21 | 30.08 | 30.02 | 10 | 9 | 4 | 16 | 3 | 22 | 0.00 | |
| | 39 | 30 | 20 | 19 | 14 | 10 | 84 | 51 | 30 | 30.47 | 30.36 | 30.21 | 10 | 10 | 10 | 14 | 7 | 21 | 0.00 | |
| | 39 | 26 | 14 | 19 | 15 | 10 | 93 | 69 | 31 | 30.56 | 30.51 | 30.45 | 10 | 10 | 10 | 9 | 2 | 16 | 0.00 | |
| | 42 | 31 | 20 | 28 | 21 | 13 | 91 | 60 | 31 | 30.56 | 30.44 | 30.17 | 10 | 10 | 10 | 8 | 2 | - | 0.00 | Rain |
| | 59 | 46 | 34 | 50 | 42 | 27 | 98 | 86 | 58 | 30.15 | 30.00 | 29.87 | 10 | 8 | 0 | 13 | 4 | 17 | 0.09 | Fog , Rain |
| | 51 | 42 | 34 | 42 | 38 | 33 | 97 | 82 | 59 | 30.21 | 30.11 | 29.99 | 10 | 9 | 0 | 7 | 2 | - | 0.00 | Fog , Rain |
| | 49 | 41 | 33 | 40 | 36 | 32 | 96 | 77 | 54 | 30.14 | 30.05 | 29.98 | 10 | 10 | 3 | 8 | 2 | - | 0.00 | |
| | 41 | 28 | 13 | 36 | 6 | -14 | 88 | 39 | 14 | 30.44 | 30.15 | 29.91 | 10 | 10 | 10 | 20 | 9 | 29 | 0.00 | |
| | 28 | 19 | 10 | 10 | 0 | -8 | 85 | 44 | 21 | 30.57 | 30.46 | 30.33 | 10 | 10 | 10 | 6 | 1 | - | 0.00 | |
| | 55 | 40 | 26 | 50 | 35 | 6 | 99 | 88 | 38 | 30.32 | 30.08 | 29.97 | 10 | 7 | 1 | 10 | 3 | 16 | 0.00 | Rain |
| | 70 | 54 | 38 | 60 | 49 | 29 | 95 | 81 | 66 | 30.47 | 30.08 | 29.93 | 10 | 9 | 2 | 21 | 8 | 32 | 0.04 | Rain |
| | 37 | 34 | 30 | 28 | 20 | 17 | 69 | 55 | 44 | 30.69 | 30.62 | 30.46 | 10 | 10 | 10 | 15 | 11 | 21 | 0.01 | Rain |
| | 41 | 30 | 20 | 23 | 18 | 13 | 93 | 64 | 32 | 30.62 | 30.46 | 30.25 | 10 | 10 | 10 | 8 | 4 | - | 0.00 | |
| | 52 | 34 | 17 | 27 | 20 | 11 | 95 | 71 | 19 | 30.30 | 30.24 | 30.18 | 10 | 10 | 10 | 6 | 1 | - | 0.00 | |
| | 60 | 43 | 26 | 32 | 27 | 20 | 87 | 54 | 26 | 30.37 | 30.14 | 30.00 | 10 | 10 | 10 | 16 | 5 | 23 | 0.00 | |
| | 47 | 34 | 20 | 32 | 25 | 18 | 96 | 71 | 35 | 30.57 | 30.47 | 30.38 | 10 | 10 | 10 | 7 | 1 | - | 0.00 | |
| | 49 | 44 | 38 | 48 | 41 | 31 | 98 | 89 | 69 | 30.38 | 30.27 | 30.18 | 10 | 6 | 0 | 7 | 2 | - | 0.28 | Fog , Rain |
| | 50 | 40 | 31 | 44 | 39 | 31 | 99 | 88 | 68 | 30.62 | 30.49 | 30.33 | 10 | 7 | 0 | 9 | 1 | - | 0.00 | Fog |
| | 52 | 46 | 40 | 45 | 40 | 37 | 96 | 81 | 70 | 30.63 | 30.52 | 30.28 | 10 | 10 | 5 | 6 | 2 | - | 0.00 | |
| | 65 | 56 | 48 | 56 | 53 | 37 | 98 | 84 | 56 | 30.26 | 30.05 | 29.94 | 10 | 9 | 0 | 17 | 8 | 25 | 0.00 | Fog , Rain |
| | 54 | 43 | 32 | 37 | 33 | 29 | 99 | 71 | 37 | 30.21 | 30.12 | 30.01 | 10 | 9 | 1 | 8 | 3 | - | 0.00 | |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|-----|-----|----------------|-----|-----|--------------|-----|-----|-----------------------|-------|-------|-----------------|-----|-----|------------|-----|------|--------------|--------|
| | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | sum | |
| | 59 | 44 | 29 | 46 | 31 | 19 | 97 | 70 | 29 | 30.07 | 29.83 | 29.64 | 10 | 9 | 3 | 21 | 4 | 37 | 0.15 | Rain |
| | 43 | 35 | 26 | 24 | 18 | 11 | 70 | 49 | 27 | 30.19 | 29.97 | 29.82 | 10 | 10 | 10 | 21 | 9 | 28 | 0.00 | |
| | 50 | 34 | 18 | 24 | 19 | 17 | 94 | 59 | 29 | 30.24 | 30.16 | 30.06 | 10 | 10 | 10 | 12 | 4 | 17 | 0.00 | |
| 2017 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
| Jan | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |
| | 58 | 51 | 44 | 43 | 34 | 22 | 75 | 56 | 40 | 30.34 | 30.20 | 30.06 | 10 | 10 | 10 | 12 | 6 | 17 | 0.00 | Rain |
| | 46 | 44 | 43 | 46 | 44 | 38 | 97 | 95 | 75 | 30.32 | 30.24 | 30.15 | 10 | 6 | 2 | 9 | 5 | - | 0.95 | Rain |
| | 49 | 46 | 43 | 48 | 45 | 43 | 98 | 95 | 91 | 30.13 | 29.82 | 29.60 | 10 | 6 | 2 | 9 | 4 | - | 0.29 | Rain |
| | 60 | 49 | 37 | 50 | 37 | 8 | 95 | 64 | 26 | 29.93 | 29.70 | 29.59 | 10 | 10 | 10 | 16 | 8 | 25 | 0.01 | |
| | 39 | 32 | 25 | 30 | 19 | 12 | 87 | 56 | 33 | 30.06 | 29.98 | 29.92 | 10 | 10 | 10 | 7 | 3 | - | 0.00 | |
| | 37 | 32 | 26 | 27 | 23 | 19 | 93 | 67 | 52 | 30.27 | 30.08 | 29.88 | 10 | 10 | 2 | 12 | 6 | - | 0.00 | Snow |
| | 26 | 13 | 0 | 25 | 15 | -4 | 100 | 88 | 74 | 30.37 | 30.24 | 30.17 | 10 | 5 | 1 | 16 | 9 | 24 | 0.11 | Snow |
| | 24 | 8 | -7 | 7 | -1 | -11 | 92 | 68 | 34 | 30.76 | 30.57 | 30.36 | 10 | 10 | 10 | 14 | 4 | 24 | 0.00 | |
| | 26 | 10 | -7 | 12 | 0 | -11 | 92 | 72 | 34 | 30.85 | 30.74 | 30.65 | 10 | 10 | 10 | 6 | 1 | - | 0.00 | |
| | 41 | 24 | 6 | 34 | 12 | 3 | 92 | 60 | 26 | 30.64 | 30.51 | 30.30 | 10 | 10 | 10 | 8 | 2 | - | 0.02 | |
| | 53 | 45 | 37 | 48 | 43 | 36 | 100 | 91 | 72 | 30.41 | 30.33 | 30.29 | 10 | 9 | 2 | 8 | 4 | - | 0.03 | Rain |
| | 69 | 58 | 48 | 54 | 51 | 46 | 100 | 72 | 49 | 30.30 | 30.25 | 30.21 | 10 | 10 | 7 | 21 | 7 | 32 | 0.00 | |
| | 62 | 53 | 44 | 52 | 44 | 28 | 82 | 65 | 46 | 30.64 | 30.44 | 30.26 | 10 | 10 | 10 | 13 | 8 | 17 | 0.00 | |
| | 44 | 40 | 37 | 39 | 33 | 23 | 100 | 74 | 46 | 30.64 | 30.52 | 30.31 | 10 | 10 | 10 | 13 | 6 | 18 | 0.01 | Rain |
| | 46 | 40 | 35 | 39 | 34 | 27 | 100 | 74 | 46 | 30.43 | 30.36 | 30.28 | 10 | 8 | 1 | 13 | 3 | 17 | 0.00 | Rain |
| | 44 | 40 | 35 | 39 | 36 | 34 | 100 | 88 | 76 | 30.51 | 30.42 | 30.32 | 10 | 8 | 3 | 7 | 1 | - | 0.09 | Rain |
| | 57 | 48 | 39 | 54 | 47 | 39 | 100 | 90 | 77 | 30.32 | 30.14 | 29.96 | 10 | 8 | 4 | 9 | 2 | - | 0.00 | Rain |
| | 64 | 50 | 35 | 55 | 45 | 32 | 100 | 74 | 34 | 30.08 | 29.96 | 29.88 | 10 | 10 | 2 | 17 | 4 | 24 | 0.02 | Rain |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|-----|-----|----------------|-----|-----|--------------|-----|-----|-----------------------|-------|-------|-----------------|-----|-----|------------|-----|------|--------------|------------|
| | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | sum | |
| | 55 | 42 | 30 | 43 | 35 | 30 | 100 | 83 | 51 | 30.15 | 30.07 | 30.01 | 10 | 10 | 7 | 7 | 1 | - | 0.00 | |
| | 48 | 42 | 37 | 46 | 43 | 36 | 100 | 93 | 81 | 30.02 | 29.94 | 29.86 | 10 | 6 | 1 | 6 | 0 | - | 0.21 | Rain |
| | 51 | 48 | 46 | 50 | 47 | 45 | 100 | 97 | 93 | 29.94 | 29.86 | 29.71 | 10 | 2 | 0 | 9 | 1 | - | 0.76 | Fog , Rain |
| | 51 | 50 | 48 | 50 | 48 | 46 | 100 | 98 | 88 | 29.71 | 29.63 | 29.54 | 10 | 5 | 0 | 10 | 4 | - | 0.41 | Fog , Rain |
| | 55 | 50 | 39 | 54 | 49 | 37 | 100 | 96 | 93 | 29.52 | 29.33 | 29.25 | 10 | 3 | 1 | 22 | 11 | 28 | 1.28 | Rain |
| | 55 | 46 | 37 | 37 | 35 | 34 | 93 | 71 | 47 | 29.73 | 29.58 | 29.44 | 10 | 10 | 5 | 13 | 10 | 23 | 0.00 | Rain |
| | 69 | 52 | 35 | 39 | 35 | 27 | 93 | 62 | 21 | 29.84 | 29.73 | 29.63 | 10 | 10 | 10 | 8 | 4 | - | 0.00 | |
| | 66 | 52 | 37 | 54 | 32 | 19 | 94 | 47 | 22 | 29.89 | 29.67 | 29.51 | 10 | 10 | 10 | 25 | 11 | 37 | 0.01 | Rain |
| | 44 | 36 | 28 | 27 | 22 | 18 | 80 | 56 | 37 | 29.90 | 29.87 | 29.82 | 10 | 10 | 10 | 17 | 7 | 22 | 0.00 | |
| | 48 | 34 | 21 | 23 | 20 | 18 | 93 | 59 | 32 | 29.90 | 29.86 | 29.78 | 10 | 10 | 10 | 18 | 5 | 26 | 0.00 | |
| | 48 | 36 | 23 | 30 | 24 | 19 | 93 | 67 | 32 | 29.86 | 29.79 | 29.75 | 10 | 10 | 10 | 13 | 3 | 21 | 0.00 | |
| | 39 | 29 | 19 | 34 | 19 | 7 | 93 | 62 | 26 | 30.09 | 29.93 | 29.75 | 10 | 10 | 5 | 18 | 7 | 26 | 0.01 | Rain |
| | 62 | 40 | 19 | 32 | 24 | 16 | 93 | 59 | 26 | 30.06 | 29.89 | 29.73 | 10 | 10 | 10 | 17 | 4 | 25 | 0.00 | |
| 2017 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
| Feb | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |
| | 55 | 44 | 33 | 37 | 32 | 21 | 93 | 64 | 26 | 30.08 | 30.02 | 29.95 | 10 | 10 | 10 | 7 | 2 | - | 0.00 | |
| | 55 | 44 | 32 | 39 | 32 | 21 | 100 | 68 | 33 | 30.24 | 30.14 | 30.07 | 10 | 10 | 5 | 12 | 2 | 16 | 0.00 | |
| | 39 | 32 | 26 | 23 | 18 | 12 | 80 | 49 | 36 | 30.34 | 30.25 | 30.16 | 10 | 10 | 10 | 10 | 5 | - | 0.00 | |
| | 41 | 28 | 15 | 18 | 9 | 0 | 86 | 46 | 19 | 30.55 | 30.43 | 30.34 | 10 | 10 | 10 | 8 | 3 | - | 0.00 | |
| | 55 | 37 | 19 | 30 | 23 | 14 | 93 | 62 | 32 | 30.33 | 30.10 | 29.95 | 10 | 10 | 7 | 17 | 4 | 23 | 0.00 | Snow |
| | 66 | 46 | 26 | 36 | 31 | 25 | 100 | 62 | 24 | 30.20 | 30.12 | 30.05 | 10 | 10 | 10 | 8 | 2 | - | 0.00 | |
| | 73 | 60 | 48 | 54 | 46 | 36 | 72 | 58 | 44 | 30.05 | 29.88 | 29.70 | 10 | 10 | 10 | 15 | 6 | 24 | 0.00 | |
| | 73 | 62 | 51 | 54 | 49 | 40 | 94 | 66 | 30 | 29.73 | 29.68 | 29.62 | 10 | 10 | 10 | 13 | 6 | 21 | 0.00 | Rain |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|-----|-----|----------------|-----|-----|--------------|-----|-----|-----------------------|-------|-------|-----------------|-----|-----|------------|-----|------|--------------|---------------------------|
| | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | sum | |
| | 58 | 43 | 28 | 52 | 24 | -1 | 94 | 52 | 25 | 30.29 | 29.81 | 29.42 | 10 | 10 | 2 | 24 | 10 | 38 | 0.23 | Rain , Thunderstorm |
| | 42 | 29 | 16 | 17 | 9 | 1 | 88 | 43 | 21 | 30.48 | 30.33 | 30.08 | 10 | 10 | 10 | 16 | 4 | 21 | 0.00 | |
| | 66 | 54 | 42 | 44 | 32 | 17 | 92 | 53 | 36 | 30.08 | 30.03 | 29.95 | 10 | 10 | 10 | 13 | 6 | 18 | 0.00 | |
| | 80 | 62 | 43 | 58 | 49 | 29 | 91 | 59 | 31 | 30.01 | 29.82 | 29.65 | 10 | 10 | 10 | 23 | 6 | 34 | 0.00 | |
| | 55 | 40 | 25 | 28 | 13 | -4 | 85 | 34 | 13 | 30.10 | 30.03 | 29.86 | 10 | 10 | 10 | 22 | 12 | 31 | 0.00 | |
| | 49 | 35 | 21 | 32 | 23 | 19 | 94 | 61 | 32 | 30.10 | 29.96 | 29.73 | 10 | 10 | 10 | 7 | 1 | - | 0.00 | Rain |
| | 52 | 39 | 26 | 44 | 32 | 16 | 96 | 70 | 34 | 29.72 | 29.60 | 29.46 | 10 | 9 | 2 | 17 | 2 | 26 | 0.42 | Rain |
| | 45 | 33 | 21 | 21 | 15 | 8 | 90 | 55 | 23 | 29.97 | 29.83 | 29.71 | 10 | 10 | 10 | 18 | 5 | 25 | 0.01 | |
| | 62 | 40 | 19 | 32 | 24 | 15 | 92 | 60 | 24 | 30.01 | 29.93 | 29.85 | 10 | 10 | 10 | 12 | 2 | 24 | 0.00 | |
| | 73 | 52 | 31 | 38 | 30 | 22 | 94 | 47 | 16 | 29.94 | 29.87 | 29.81 | 10 | 10 | 10 | 15 | 3 | 23 | 0.00 | |
| | 71 | 56 | 40 | 46 | 42 | 32 | 91 | 60 | 35 | 30.08 | 29.93 | 29.84 | 10 | 10 | 10 | 9 | 4 | - | 0.00 | |
| | 68 | 50 | 32 | 44 | 36 | 31 | 96 | 66 | 25 | 30.30 | 30.19 | 30.08 | 10 | 10 | 5 | 14 | 2 | 17 | 0.00 | |
| | 59 | 46 | 33 | 40 | 35 | 32 | 96 | 70 | 35 | 30.34 | 30.25 | 30.13 | 10 | 10 | 7 | 9 | 1 | - | 0.00 | |
| | 54 | 44 | 34 | 52 | 45 | 34 | 97 | 93 | 79 | 30.12 | 30.02 | 29.93 | 10 | 8 | 2 | 5 | 0 | - | 0.05 | Rain |
| | 74 | 62 | 49 | 55 | 51 | 48 | 97 | 77 | 39 | 29.97 | 29.92 | 29.87 | 10 | 8 | 1 | 10 | 2 | 16 | 0.00 | Rain |
| | 75 | 58 | 42 | 57 | 51 | 42 | 98 | 78 | 46 | 29.98 | 29.90 | 29.81 | 10 | 7 | 0 | 8 | 2 | - | 0.00 | Fog |
| | 77 | 62 | 48 | 58 | 48 | 18 | 97 | 66 | 28 | 29.85 | 29.70 | 29.47 | 10 | 9 | 0 | 17 | 5 | 26 | 0.05 | Fog , Rain , Thunderstorm |
| | 51 | 39 | 27 | 28 | 21 | 13 | 94 | 51 | 22 | 30.32 | 30.13 | 29.86 | 10 | 10 | 10 | 12 | 6 | 20 | 0.00 | |
| | 62 | 44 | 25 | 36 | 27 | 17 | 96 | 59 | 18 | 30.47 | 30.39 | 30.32 | 10 | 10 | 10 | 9 | 2 | - | 0.00 | |
| | 72 | 57 | 42 | 56 | 49 | 34 | 95 | 71 | 48 | 30.36 | 30.23 | 30.06 | 10 | 10 | 10 | 10 | 2 | 16 | 0.00 | Rain |
| 2017 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
| Mar | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|----|----|----------------|----|----|--------------|----|----|-----------------------|-------|-------|-----------------|----|----|------------|----|----|--------------|------------------------|
| | 78 | 68 | 57 | 61 | 56 | 45 | 94 | 76 | 38 | 30.05 | 29.85 | 29.69 | 10 | 10 | 7 | 30 | 8 | 44 | 0.24 | Rain , Thunderstorm |
| | 60 | 44 | 28 | 56 | 26 | 12 | 92 | 46 | 20 | 30.25 | 30.00 | 29.71 | 10 | 10 | 10 | 18 | 10 | 30 | 0.23 | |
| | 50 | 36 | 23 | 26 | 16 | 2 | 95 | 53 | 15 | 30.56 | 30.37 | 30.25 | 10 | 10 | 10 | 18 | 5 | 29 | 0.00 | |
| | 47 | 33 | 19 | 22 | 14 | 4 | 91 | 53 | 18 | 30.65 | 30.58 | 30.51 | 10 | 10 | 10 | 12 | 2 | 18 | 0.00 | |
| | 43 | 34 | 24 | 22 | 14 | 8 | 82 | 50 | 26 | 30.72 | 30.62 | 30.55 | 10 | 10 | 10 | 12 | 4 | - | 0.00 | |
| | 64 | 44 | 24 | 42 | 31 | 17 | 82 | 60 | 34 | 30.54 | 30.46 | 30.37 | 10 | 10 | 10 | 14 | 2 | 16 | 0.00 | |
| | 69 | 60 | 51 | 51 | 45 | 40 | 72 | 57 | 40 | 30.37 | 30.26 | 30.11 | 10 | 10 | 10 | 17 | 7 | 28 | 0.00 | Rain |
| | 66 | 52 | 37 | 55 | 35 | 12 | 88 | 50 | 12 | 30.20 | 30.13 | 30.04 | 10 | 10 | 5 | 17 | 9 | 29 | 0.02 | Rain |
| | 71 | 52 | 34 | 32 | 24 | 12 | 81 | 41 | 10 | 30.24 | 30.12 | 29.96 | 10 | 10 | 10 | 16 | 5 | 24 | 0.00 | |
| | 55 | 41 | 26 | 36 | 27 | 12 | 77 | 49 | 29 | 30.16 | 29.92 | 29.76 | 10 | 10 | 10 | 17 | 6 | 30 | 0.03 | Rain |
| | 47 | 34 | 20 | 22 | 12 | -5 | 94 | 50 | 12 | 30.34 | 30.25 | 30.16 | 10 | 10 | 10 | 12 | 3 | 21 | 0.00 | |
| | 44 | 36 | 27 | 20 | 11 | 3 | 76 | 42 | 19 | 30.44 | 30.37 | 30.29 | 10 | 10 | 10 | 10 | 5 | - | 0.00 | |
| | 44 | 33 | 22 | 33 | 24 | 17 | 96 | 74 | 34 | 30.46 | 30.32 | 29.98 | 10 | 9 | 3 | 13 | 5 | 18 | 0.47 | Rain |
| | 49 | 39 | 30 | 36 | 27 | 6 | 97 | 73 | 35 | 29.95 | 29.69 | 29.55 | 10 | 8 | 2 | 21 | 14 | 29 | 1.23 | Rain , Snow |
| | 37 | 29 | 21 | 9 | 1 | -3 | 50 | 31 | 21 | 30.16 | 30.00 | 29.88 | 10 | 10 | 10 | 23 | 13 | 38 | 0.00 | |
| | 45 | 30 | 15 | 18 | 10 | 4 | 84 | 45 | 21 | 30.30 | 30.22 | 30.16 | 10 | 10 | 10 | 16 | 6 | 22 | 0.00 | |
| | 54 | 36 | 17 | 36 | 15 | 4 | 91 | 50 | 13 | 30.44 | 30.33 | 30.23 | 10 | 10 | 10 | 9 | 2 | 18 | 0.00 | Rain |
| | 65 | 52 | 40 | 46 | 41 | 35 | 95 | 75 | 40 | 30.21 | 30.04 | 29.88 | 10 | 10 | 1 | 10 | 2 | 29 | 0.95 | Rain , Thunderstorm |
| | 51 | 41 | 32 | 42 | 35 | 30 | 96 | 77 | 49 | 30.25 | 30.15 | 30.00 | 10 | 10 | 7 | 18 | 9 | 29 | 0.07 | Rain |
| | 57 | 41 | 25 | 40 | 31 | 24 | 96 | 68 | 36 | 30.25 | 30.16 | 30.04 | 10 | 10 | 7 | 8 | 2 | 9 | 0.00 | |
| | 67 | 56 | 44 | 47 | 43 | 36 | 94 | 68 | 41 | 30.03 | 29.95 | 29.92 | 10 | 10 | 7 | 12 | 2 | - | 0.00 | Rain |
| | 54 | 44 | 34 | 46 | 24 | 5 | 92 | 46 | 16 | 30.46 | 30.17 | 29.94 | 10 | 10 | 10 | 22 | 7 | 31 | 0.00 | Rain , Thunderstorm |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|-----|-----|----------------|-----|-----|--------------|-----|-----|-----------------------|-------|-------|-----------------|-----|-----|------------|-----|------|--------------|------------------------|
| | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |
| | 50 | 36 | 21 | 24 | 14 | 7 | 85 | 48 | 19 | 30.66 | 30.57 | 30.47 | 10 | 10 | 10 | 12 | 2 | - | 0.00 | |
| | 69 | 48 | 28 | 46 | 33 | 20 | 86 | 56 | 27 | 30.58 | 30.42 | 30.27 | 10 | 10 | 10 | 20 | 4 | 28 | 0.00 | |
| | 75 | 64 | 53 | 52 | 48 | 46 | 88 | 61 | 38 | 30.29 | 30.24 | 30.18 | 10 | 10 | 10 | 17 | 6 | 24 | 0.00 | |
| | 74 | 60 | 48 | 54 | 51 | 47 | 96 | 72 | 41 | 30.28 | 30.21 | 30.14 | 10 | 10 | 7 | 12 | 2 | - | 0.00 | Rain |
| | 78 | 62 | 47 | 57 | 54 | 46 | 96 | 74 | 46 | 30.17 | 30.06 | 29.95 | 10 | 10 | 7 | 14 | 3 | 21 | 0.00 | Rain |
| | 72 | 62 | 53 | 61 | 56 | 52 | 96 | 81 | 53 | 29.96 | 29.90 | 29.84 | 10 | 10 | 1 | 12 | 3 | 17 | 0.12 | Rain , Thunderstorm |
| | 68 | 56 | 42 | 55 | 50 | 40 | 96 | 72 | 43 | 30.18 | 30.06 | 29.95 | 10 | 10 | 7 | 9 | 4 | 16 | 0.00 | |
| | 59 | 48 | 39 | 45 | 41 | 38 | 97 | 74 | 48 | 30.24 | 30.15 | 30.03 | 10 | 10 | 7 | 9 | 3 | - | 0.00 | Rain |
| | 67 | 57 | 48 | 60 | 53 | 42 | 96 | 90 | 76 | 30.03 | 29.76 | 29.58 | 10 | 8 | 2 | 10 | 3 | 17 | 1.16 | Rain , Thunderstorm |
| 2017 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
| Apr | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |
| | 71 | 58 | 46 | 51 | 45 | 38 | 97 | 63 | 35 | 30.13 | 29.89 | 29.71 | 10 | 10 | 10 | 17 | 7 | 18 | 0.00 | |
| | 63 | 49 | 36 | 41 | 34 | 28 | 95 | 60 | 27 | 30.28 | 30.19 | 30.13 | 10 | 10 | 10 | 13 | 5 | 17 | 0.00 | |
| | 72 | 54 | 37 | 62 | 46 | 36 | 97 | 72 | 35 | 30.18 | 30.00 | 29.70 | 10 | 9 | 4 | 10 | 3 | 17 | 0.13 | Rain |
| | 80 | 70 | 59 | 60 | 54 | 46 | 90 | 62 | 31 | 29.79 | 29.69 | 29.64 | 10 | 10 | 10 | 21 | 10 | 31 | 0.00 | Rain |
| | 78 | 61 | 44 | 55 | 48 | 44 | 97 | 63 | 30 | 29.94 | 29.85 | 29.73 | 10 | 10 | 7 | 13 | 2 | 23 | 0.00 | |
| | 71 | 60 | 50 | 60 | 48 | 29 | 86 | 63 | 31 | 29.72 | 29.50 | 29.31 | 10 | 10 | 5 | 29 | 9 | 41 | 0.02 | Rain , Thunderstorm |
| | 54 | 48 | 42 | 32 | 27 | 21 | 63 | 43 | 31 | 29.94 | 29.68 | 29.55 | 10 | 10 | 10 | 20 | 13 | 32 | 0.00 | |
| | 65 | 46 | 27 | 35 | 25 | 17 | 93 | 53 | 16 | 30.08 | 30.01 | 29.95 | 10 | 10 | 10 | 10 | 4 | 17 | 0.00 | |
| | 73 | 52 | 32 | 40 | 30 | 21 | 98 | 55 | 15 | 30.24 | 30.17 | 30.08 | 10 | 10 | 10 | 8 | 1 | - | 0.00 | |
| | 79 | 59 | 39 | 45 | 39 | 35 | 93 | 49 | 21 | 30.31 | 30.23 | 30.18 | 10 | 10 | 10 | 15 | 4 | 23 | 0.00 | |
| | 83 | 69 | 55 | 53 | 50 | 45 | 83 | 53 | 27 | 30.25 | 30.20 | 30.13 | 10 | 10 | 7 | 14 | 6 | 21 | 0.00 | |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|-----|-----|----------------|-----|-----|--------------|-----|-----|-----------------------|-------|-------|-----------------|-----|-----|------------|-----|------|--------------|------------------------|
| | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | sum | |
| | 79 | 67 | 55 | 56 | 52 | 48 | 89 | 61 | 35 | 30.27 | 30.20 | 30.15 | 10 | 10 | 5 | 8 | 4 | - | 0.00 | |
| | 74 | 61 | 47 | 54 | 40 | 30 | 91 | 46 | 25 | 30.38 | 30.32 | 30.27 | 10 | 10 | 7 | 15 | 6 | 24 | 0.00 | |
| | 72 | 56 | 40 | 48 | 42 | 36 | 97 | 63 | 37 | 30.38 | 30.34 | 30.28 | 10 | 9 | 5 | 9 | 1 | 16 | 0.00 | |
| | 83 | 65 | 47 | 61 | 52 | 41 | 94 | 64 | 38 | 30.36 | 30.27 | 30.16 | 10 | 10 | 7 | 17 | 3 | 26 | 0.03 | Rain |
| | 84 | 72 | 61 | 58 | 53 | 47 | 79 | 51 | 27 | 30.19 | 30.11 | 30.01 | 10 | 10 | 10 | 21 | 8 | 29 | 0.00 | |
| | 83 | 70 | 57 | 64 | 56 | 50 | 94 | 67 | 35 | 30.14 | 30.05 | 30.00 | 10 | 10 | 2 | 13 | 5 | 22 | 0.22 | Rain |
| | 69 | 56 | 45 | 56 | 45 | 35 | 96 | 65 | 31 | 30.41 | 30.30 | 30.15 | 10 | 10 | 5 | 14 | 4 | 20 | 0.00 | |
| | 67 | 58 | 50 | 57 | 51 | 41 | 95 | 80 | 59 | 30.42 | 30.35 | 30.25 | 10 | 10 | 7 | 8 | 2 | - | 0.01 | Rain |
| | 83 | 70 | 56 | 64 | 58 | 54 | 97 | 75 | 42 | 30.25 | 30.10 | 29.98 | 10 | 8 | 1 | 10 | 5 | - | 0.01 | Rain |
| | 87 | 72 | 57 | 63 | 59 | 54 | 97 | 66 | 33 | 29.98 | 29.89 | 29.81 | 10 | 9 | 2 | 12 | 4 | 17 | 0.01 | Rain |
| | 71 | 62 | 52 | 64 | 59 | 51 | 96 | 88 | 68 | 30.02 | 29.90 | 29.84 | 10 | 9 | 2 | 16 | 5 | 21 | 0.40 | Rain , Thunderstorm |
| | 55 | 52 | 50 | 51 | 49 | 46 | 95 | 88 | 73 | 30.12 | 30.07 | 30.00 | 10 | 9 | 5 | 13 | 7 | 16 | 0.12 | Rain |
| | 57 | 54 | 50 | 56 | 52 | 49 | 97 | 96 | 89 | 30.05 | 29.94 | 29.85 | 10 | 6 | 2 | 18 | 10 | 28 | 0.38 | Rain |
| | 72 | 64 | 55 | 64 | 59 | 54 | 98 | 91 | 67 | 29.85 | 29.69 | 29.62 | 10 | 7 | 2 | 20 | 12 | 30 | 0.48 | Rain , Thunderstorm |
| | 76 | 66 | 56 | 63 | 57 | 55 | 97 | 79 | 50 | 29.84 | 29.78 | 29.71 | 10 | 9 | 3 | 8 | 4 | - | 0.00 | Rain |
| | 83 | 68 | 55 | 62 | 58 | 55 | 98 | 70 | 40 | 29.90 | 29.85 | 29.82 | 10 | 8 | 1 | 14 | 3 | 20 | 0.00 | |
| | 86 | 74 | 64 | 67 | 64 | 59 | 93 | 71 | 43 | 30.07 | 30.01 | 29.90 | 10 | 10 | 7 | 10 | 3 | 18 | 0.00 | Rain , Thunderstorm |
| | 88 | 78 | 68 | 70 | 69 | 67 | 94 | 76 | 52 | 30.18 | 30.12 | 30.06 | 10 | 8 | 5 | 15 | 5 | 20 | 0.00 | |
| | 84 | 76 | 67 | 68 | 65 | 61 | 96 | 71 | 46 | 30.18 | 30.12 | 30.06 | 10 | 9 | 4 | 16 | 5 | 23 | 0.00 | |
| 2017 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
| May | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|----|----|----------------|----|----|--------------|----|----|-----------------------|-------|-------|-----------------|----|----|------------|---|----|--------------|---------------------|
| | | | | | | | | | | | | | | | | | | | | |
| | 82 | 74 | 66 | 66 | 62 | 58 | 91 | 67 | 42 | 30.08 | 29.92 | 29.74 | 10 | 10 | 7 | 16 | 8 | 26 | 0.00 | Rain , Thunderstorm |
| | 75 | 65 | 52 | 67 | 50 | 38 | 93 | 58 | 27 | 29.90 | 29.81 | 29.71 | 10 | 10 | 5 | 20 | 8 | 30 | 0.10 | Rain |
| | 73 | 60 | 46 | 47 | 41 | 35 | 90 | 49 | 25 | 30.19 | 30.02 | 29.90 | 10 | 10 | 10 | 18 | 2 | 24 | 0.00 | |
| | 73 | 57 | 43 | 58 | 50 | 42 | 96 | 75 | 44 | 30.20 | 30.07 | 29.85 | 10 | 10 | 2 | 16 | 4 | 23 | 0.14 | Rain |
| | 73 | 66 | 59 | 66 | 62 | 48 | 95 | 86 | 63 | 29.83 | 29.54 | 29.39 | 10 | 9 | 2 | 16 | 7 | 26 | 0.79 | Thunderstorm |
| | 64 | 54 | 45 | 50 | 45 | 40 | 93 | 69 | 49 | 29.69 | 29.52 | 29.41 | 10 | 10 | 10 | 15 | 7 | 23 | 0.00 | Rain |
| | 65 | 52 | 41 | 48 | 41 | 36 | 95 | 66 | 36 | 29.92 | 29.80 | 29.69 | 10 | 10 | 10 | 13 | 3 | 21 | 0.00 | Rain |
| | 65 | 50 | 37 | 46 | 37 | 27 | 97 | 66 | 24 | 30.01 | 29.97 | 29.93 | 10 | 10 | 7 | 12 | 1 | 17 | 0.00 | |
| | 70 | 50 | 32 | 49 | 37 | 29 | 99 | 66 | 24 | 30.04 | 29.99 | 29.94 | 10 | 10 | 10 | 12 | 1 | 16 | 0.00 | |
| | 76 | 60 | 45 | 63 | 51 | 45 | 98 | 74 | 39 | 30.03 | 29.97 | 29.93 | 10 | 10 | 5 | 8 | 0 | - | 0.04 | Rain |
| | 63 | 58 | 52 | 61 | 56 | 51 | 97 | 92 | 85 | 29.98 | 29.89 | 29.82 | 10 | 6 | 2 | 14 | 3 | 18 | 0.08 | |
| | 53 | 52 | 50 | 52 | 50 | 49 | 97 | 95 | 90 | 30.00 | 29.96 | 29.87 | 10 | 6 | 2 | 10 | 7 | - | 0.95 | |
| | 64 | 54 | 43 | 52 | 49 | 42 | 97 | 86 | 63 | 29.87 | 29.82 | 29.79 | 10 | 9 | 2 | 12 | 4 | - | 0.02 | |
| | 82 | 61 | 40 | 58 | 49 | 40 | 99 | 65 | 30 | 29.86 | 29.81 | 29.73 | 10 | 10 | 3 | 16 | 2 | 22 | 0.00 | |
| | 78 | 62 | 46 | 55 | 41 | 28 | 96 | 49 | 17 | 30.03 | 29.92 | 29.77 | 10 | 10 | 10 | 15 | 1 | 20 | 0.00 | |
| | 82 | 61 | 41 | 61 | 47 | 39 | 97 | 65 | 27 | 30.13 | 30.08 | 30.04 | 10 | 10 | 10 | 6 | 0 | - | 0.00 | |
| | 91 | 72 | 55 | 66 | 60 | 55 | 98 | 68 | 32 | 30.10 | 30.05 | 30.02 | 10 | 10 | 2 | 14 | 2 | 20 | 0.00 | |
| | 86 | 76 | 66 | 65 | 62 | 58 | 75 | 61 | 47 | 30.13 | 30.06 | 30.00 | 10 | 10 | 10 | 14 | 3 | 22 | 0.00 | |
| | 90 | 79 | 68 | 68 | 66 | 62 | 93 | 71 | 45 | 30.07 | 30.03 | 29.98 | 10 | 10 | 10 | 18 | 3 | 28 | 0.00 | Rain , Thunderstorm |
| | 81 | 70 | 59 | 67 | 61 | 52 | 95 | 74 | 56 | 30.28 | 30.13 | 30.03 | 10 | 10 | 7 | 15 | 3 | 21 | 0.00 | |
| | 70 | 63 | 56 | 58 | 54 | 51 | 87 | 74 | 60 | 30.31 | 30.24 | 30.17 | 10 | 10 | 7 | 10 | 2 | - | 0.00 | |
| | 72 | 66 | 60 | 67 | 62 | 56 | 98 | 92 | 78 | 30.16 | 30.03 | 29.94 | 10 | 6 | 0 | 7 | 0 | - | 0.76 | Fog , Rain |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|-----|-----|----------------|-----|-----|--------------|-----|-----|-----------------------|-------|-------|-----------------|-----|-----|------------|-----|------|--------------|---------------------|
| | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |
| | 65 | 62 | 59 | 64 | 62 | 59 | 98 | 96 | 89 | 29.97 | 29.85 | 29.70 | 10 | 5 | 0 | 13 | 4 | 18 | 1.16 | Fog , Rain |
| | 65 | 61 | 57 | 60 | 58 | 57 | 98 | 92 | 84 | 29.74 | 29.69 | 29.60 | 10 | 8 | 3 | 14 | 3 | 20 | 0.41 | Rain , Thunderstorm |
| | 77 | 66 | 57 | 62 | 58 | 51 | 98 | 80 | 47 | 29.64 | 29.53 | 29.47 | 10 | 9 | 4 | 20 | 5 | 31 | 0.20 | Rain , Thunderstorm |
| | 79 | 68 | 56 | 59 | 54 | 50 | 97 | 67 | 38 | 29.94 | 29.81 | 29.64 | 10 | 10 | 7 | 17 | 8 | 25 | 0.00 | |
| | 86 | 68 | 52 | 70 | 59 | 51 | 99 | 76 | 44 | 29.94 | 29.90 | 29.82 | 10 | 9 | 4 | 6 | 0 | 22 | 0.32 | Rain , Thunderstorm |
| | 77 | 69 | 61 | 68 | 65 | 60 | 99 | 90 | 69 | 29.89 | 29.84 | 29.80 | 10 | 7 | 1 | 12 | 0 | - | 0.02 | Rain |
| | 85 | 74 | 64 | 70 | 65 | 60 | 99 | 77 | 43 | 30.02 | 29.91 | 29.81 | 10 | 8 | 0 | 0 | 0 | - | 0.00 | Fog , Rain |
| | 81 | 74 | 65 | 69 | 67 | 65 | 99 | 85 | 58 | 30.08 | 30.03 | 29.98 | 10 | 8 | 0 | 0 | 0 | - | 0.00 | Fog |
| | 84 | 72 | 60 | 68 | 61 | 52 | 99 | 76 | 34 | 30.06 | 30.02 | 29.97 | 10 | 8 | 2 | 5 | 0 | - | 0.00 | |
| 2017 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
| Jun | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | low | high | avg | high | sum | |
| | 85 | 70 | 56 | 65 | 57 | 50 | 98 | 69 | 30 | 30.07 | 30.01 | 29.96 | 10 | 10 | 10 | 9 | 0 | 16 | 0.00 | |
| | 82 | 68 | 55 | 63 | 52 | 42 | 99 | 61 | 24 | 30.07 | 30.03 | 29.98 | 10 | 10 | 5 | 8 | 0 | - | 0.00 | |
| | 85 | 68 | 51 | 64 | 53 | 40 | 99 | 66 | 21 | 30.08 | 30.03 | 29.98 | 10 | 10 | 5 | 10 | 1 | - | 0.00 | |
| | 87 | 70 | 53 | 66 | 58 | 53 | 100 | 68 | 31 | 30.04 | 29.97 | 29.86 | 10 | 9 | 5 | 16 | 1 | 28 | 0.00 | |
| | 73 | 69 | 65 | 69 | 66 | 64 | 97 | 88 | 78 | 29.89 | 29.78 | 29.69 | 10 | 9 | 2 | 12 | 0 | - | 0.23 | Rain |
| | 81 | 70 | 59 | 64 | 59 | 53 | 99 | 71 | 39 | 29.84 | 29.75 | 29.69 | 10 | 9 | 2 | 12 | 0 | - | 0.00 | |
| | 72 | 62 | 53 | 58 | 54 | 50 | 96 | 73 | 57 | 30.03 | 29.93 | 29.84 | 10 | 10 | 10 | 14 | 1 | 21 | 0.00 | Rain |
| | 70 | 59 | 48 | 56 | 51 | 48 | 98 | 79 | 50 | 30.03 | 29.94 | 29.85 | 10 | 10 | 10 | 15 | 2 | 21 | 0.00 | |
| | 79 | 63 | 47 | 63 | 53 | 47 | 99 | 71 | 36 | 30.01 | 29.91 | 29.84 | 10 | 10 | 7 | 0 | 0 | - | 0.00 | |
| | 87 | 69 | 51 | 68 | 60 | 51 | 99 | 72 | 38 | 30.14 | 30.06 | 30.01 | 10 | 10 | 7 | 9 | 0 | - | 0.00 | |
| | 90 | 76 | 61 | 66 | 63 | 58 | 98 | 68 | 33 | 30.19 | 30.14 | 30.11 | 10 | 10 | 7 | 0 | 0 | - | 0.00 | |

| 2016 | Temp. (°F) | | | Dew Point (°F) | | | Humidity (%) | | | Sea Level Press. (in) | | | Visibility (mi) | | | Wind (mph) | | | Precip. (in) | Events |
|------|------------|----|----|----------------|----|----|--------------|----|----|-----------------------|-------|-------|-----------------|----|----|------------|---|----|--------------|------------------------|
| | | | | | | | | | | | | | | | | | | | | |
| | 90 | 74 | 60 | 68 | 65 | 60 | 98 | 70 | 41 | 30.16 | 30.11 | 30.04 | 10 | 10 | 1 | 0 | 0 | - | 0.00 | |
| | 89 | 78 | 66 | 72 | 68 | 64 | 98 | 72 | 51 | 30.07 | 30.01 | 29.94 | 10 | 10 | 7 | 6 | 0 | - | 0.00 | |
| | 90 | 76 | 63 | 71 | 67 | 62 | 99 | 80 | 47 | 30.00 | 29.96 | 29.91 | 10 | 8 | 1 | 16 | 0 | 24 | 0.45 | Rain , Thunderstorm |
| | 85 | 76 | 68 | 70 | 68 | 66 | 99 | 82 | 56 | 30.00 | 29.96 | 29.90 | 10 | 6 | 0 | 0 | 0 | - | 0.00 | Fog |
| | 84 | 76 | 67 | 70 | 69 | 65 | 99 | 87 | 60 | 29.94 | 29.91 | 29.85 | 10 | 7 | 2 | 12 | 0 | 21 | 0.45 | Rain , Thunderstorm |
| | 86 | 78 | 69 | 75 | 71 | 69 | 100 | 91 | 57 | 29.95 | 29.91 | 29.87 | 10 | 8 | 2 | 8 | 0 | - | 0.17 | Rain , Thunderstorm |
| | 86 | 78 | 70 | 74 | 71 | 69 | 100 | 80 | 59 | 29.96 | 29.91 | 29.86 | 10 | 9 | 5 | 12 | 1 | 17 | 0.00 | Rain |
| | 88 | 78 | 68 | 74 | 71 | 68 | 99 | 79 | 54 | 29.99 | 29.93 | 29.85 | 10 | 9 | 2 | 14 | 3 | 22 | 0.89 | Rain , Thunderstorm |
| | 79 | 72 | 66 | 71 | 68 | 66 | 99 | 88 | 68 | 30.07 | 30.03 | 29.96 | 10 | 10 | 5 | 8 | 1 | - | 0.01 | Rain |
| | 85 | 76 | 66 | 70 | 67 | 65 | 98 | 79 | 52 | 30.07 | 30.04 | 29.99 | 10 | 10 | 10 | 10 | 0 | - | 0.00 | Rain |
| | 86 | 77 | 68 | 72 | 70 | 68 | 99 | 79 | 55 | 30.06 | 30.03 | 29.99 | 10 | 10 | 7 | 0 | 0 | - | 0.00 | |
| | 89 | 80 | 71 | 73 | 70 | 68 | 98 | 75 | 54 | 30.02 | 29.90 | 29.80 | 10 | 10 | 7 | 17 | 2 | 26 | 0.01 | Rain |
| | 88 | 79 | 70 | 73 | 68 | 62 | 99 | 66 | 46 | 29.98 | 29.87 | 29.69 | 10 | 10 | 10 | 22 | 7 | 30 | 0.00 | |
| | 85 | 74 | 63 | 71 | 63 | 55 | 99 | 69 | 36 | 30.07 | 30.03 | 29.98 | 10 | 10 | 7 | 9 | 0 | - | 0.00 | |
| | 82 | 67 | 52 | 62 | 55 | 49 | 100 | 65 | 32 | 30.13 | 30.07 | 30.02 | 10 | 10 | 7 | 0 | 0 | - | 0.00 | |
| | 81 | 68 | 55 | 58 | 54 | 47 | 100 | 68 | 31 | 30.08 | 30.03 | 30.00 | 10 | 10 | 10 | 0 | 0 | - | 0.00 | |
| | 80 | 64 | 49 | 63 | 51 | 44 | 100 | 64 | 30 | 30.22 | 30.18 | 30.08 | 10 | 10 | 10 | 5 | 0 | - | 0.00 | |
| | 85 | 70 | 54 | 62 | 58 | 54 | 100 | 68 | 36 | 30.23 | 30.17 | 30.12 | 10 | 10 | 7 | 12 | 1 | 17 | 0.00 | |
| | 88 | 75 | 63 | 69 | 65 | 60 | 100 | 70 | 42 | 30.14 | 30.08 | 30.00 | 10 | 10 | 7 | 12 | 1 | 20 | 0.00 | |

**Appendix F. Permanent Stormwater
Management Facility Data**

Appendix G. Stormwater Management Facility Tracking Database Export

| | BMP ID | Development Description | Field Verified | Inspection Date | Maintenance Agreement | Address # | Address Street | 2013 BMP Type | 1999 BMP Type | CBP BMP Type | Proprietary Device | Online Date | Ownership | Parcel ID | Watershed | Impaired Waters | Total Acres Treated | Pervious Acres Treated | Impervious Acres Treated | HUC 12 | Regulated Area | Ches. Bay Area | Urbanized Area | VPDES Holder | VPDES # | Latitude | Longitude |
|----|----------|---|----------------|-----------------|-----------------------|-----------|------------------|----------------------------|---|------------------------------|--------------------|-------------|-----------|-----------|----------------|---------------------------|---------------------|------------------------|--------------------------|--------------|----------------|----------------|----------------|--------------|-----------|----------|-------------|
| 1 | 94B - B | Boars Head Brand | No | | No | 2090 | INDUSTRY PL | NA | Extended Detention (30hr DD 2*WQ) | Dry Detention Ponds | NA | 11/20/2012 | Private | 096010800 | Second Swamp | Second Swamp | 21.44 | 15.34 | 6.10 | 030102020101 | no | no | no | NA | NA | -77.4174 | 37.1762352 |
| 2 | 1 - B | City of Petersburg | Inaccessible | | NA | 3645 | HALIFAX RD | NA | Constructed Wetlands (2*WQ) | Constructed Wetland | NA | 3/27/1979 | Public | 096010001 | Second Swamp | Second Swamp | 21.11 | 20.01 | 1.10 | 020802071001 | no | no | no | NA | NA | -77.4197 | 37.17890549 |
| 3 | 2 - B | Petersburg Interstate Industrial Park | Inaccessible | | NA | 3645 | HALIFAX RD | NA | Retention Basin I (3*WQ) | Wet Pond | NA | 3/27/1979 | Public | 096010001 | Second Swamp | Second Swamp | 121.19 | 104.62 | 16.57 | 030102020101 | no | no | no | GP | VAR051963 | -77.4078 | 37.1787796 |
| 4 | 3 - B | Bleachtech LLC | Inaccessible | | no | 2020 | BESSEMER RD | NA | Extended Detention (30hr DD 2*WQ) | Dry Detention Ponds | NA | 4/6/2007 | Private | 096010806 | Second Swamp | Second Swamp | 13.10 | 13.10 | 0.00 | 030102020101 | no | no | no | NA | NA | -77.4163 | 37.1797524 |
| 5 | 4 - UB | Pinehill Plaza Shopping Center | Yes | 6/3/2015 | no | 3333 | CRATER RD S | NA | Extended Detention (30hr DD 2*WQ) | Dry Detention Ponds | NA | 6/3/1996 | Private | 087030802 | Blackwater | Blackwater Swamp | 3.05 | 1.23 | 1.82 | 030102020102 | no | no | yes | NA | NA | -77.3668 | 37.18400192 |
| 6 | 4B - UB | Pinehill Plaza Shopping Center | No | | No | 3333 | CRATER RD S | NA | Extended Detention (30hr DD 2*WQ) | Dry Detention Ponds | NA | 6/3/1996 | Private | 087030802 | Blackwater | Blackwater Swamp | 10.44 | 3.69 | 6.75 | 030102020102 | no | no | yes | NA | NA | -77.3654 | 37.18500137 |
| 7 | 51 - UB | HealthSouth Rehabilitation Hospital | Yes | 6/3/2015 | Yes | 200 | MEDICAL PARK BLV | NA | Enhanced Extended Detention (wShallowMarsh) | Dry Extended Detention Ponds | NA | 8/17/2010 | Private | 087030809 | Blackwater | Unsegmented Rivers in K31 | 25.51 | 22.37 | 3.14 | 030102020102 | no | no | yes | NA | NA | -77.3582 | 37.18169403 |
| 8 | 52 - UB | HealthSouth Rehabilitation Hospital | Yes | 6/2/2015 | Yes | 200 | MEDICAL PARK BLV | NA | Enhanced Extended Detention (wShallowMarsh) | Dry Extended Detention Ponds | NA | 8/17/2010 | Private | 087030809 | Blackwater | Unsegmented Rivers in K31 | 14.27 | 14.24 | 0.04 | 030102020102 | no | no | yes | NA | NA | -77.3609 | 37.18759593 |
| 9 | 55 - UB | HealthSouth Rehabilitation Hospital | Yes | 6/3/2015 | Yes | 200 | MEDICAL PARK BLV | NA | Extended Detention (30hr DD 2*WQ) | Dry Extended Detention Ponds | NA | 8/17/2010 | Private | 087030809 | Blackwater | Unsegmented Rivers in K31 | 3.07 | 3.07 | 0.00 | 030102020102 | no | no | yes | NA | NA | -77.3612 | 37.18236542 |
| 10 | 56 - UB | HealthSouth Rehabilitation Hospital | Yes | 6/2/2015 | Yes | 200 | MEDICAL PARK BLV | NA | Enhanced Extended Detention (wShallowMarsh) | Dry Extended Detention Ponds | NA | 8/17/2010 | Private | 087030809 | Blackwater | Unsegmented Rivers in K31 | 2.91 | 2.91 | 0.00 | 030102020102 | no | no | yes | NA | NA | -77.3588 | 37.18330002 |
| 11 | 57 - UB | HealthSouth Rehabilitation Hospital | Yes | 6/2/2015 | Yes | 200 | MEDICAL PARK BLV | NA | Enhanced Extended Detention (wShallowMarsh) | Dry Extended Detention Ponds | NA | 8/17/2010 | Private | 087030809 | Blackwater | Unsegmented Rivers in K31 | 4.85 | 4.85 | 0.00 | 030102020102 | no | no | yes | NA | NA | -77.3596 | 37.18370438 |
| 12 | 58A - UB | HealthSouth Rehabilitation Hospital | Yes | 6/3/2015 | Yes | 200 | MEDICAL PARK BLV | NA | Enhanced Extended Detention (wShallowMarsh) | Dry Extended Detention Ponds | NA | 8/17/2010 | Private | 087030809 | Blackwater | Unsegmented Rivers in K31 | 2.05 | 2.05 | 0.00 | 030102020102 | no | no | yes | NA | NA | -77.3585 | 37.18356233 |
| 13 | 58B - UB | HealthSouth Rehabilitation Hospital | Yes | 6/3/2015 | Yes | 200 | MEDICAL PARK BLV | NA | Enhanced Extended Detention (wShallowMarsh) | Dry Extended Detention Ponds | NA | 8/17/2010 | Private | 087030809 | Blackwater | Unsegmented Rivers in K31 | 1.36 | 1.36 | 0.00 | 030102020102 | no | no | yes | NA | NA | -77.3578 | 37.18358231 |
| 14 | 84B - UB | Medical Park Blvd | No | | No | 235 | MEDICAL PARK BLV | NA | Enhanced Extended Detention (wShallowMarsh) | Dry Detention Ponds | NA | 6/11/2012 | Private | 087030811 | Blackwater | Unsegmented Rivers in K31 | 2.11 | 1.69 | 0.43 | 030102020102 | no | no | yes | NA | NA | -77.3622 | 37.18319634 |
| 15 | 84A - UB | Medical Park Blvd | Inaccessible | 6/3/2015 | Yes | 230 | MEDICAL PARK BLV | NA | Enhanced Extended Detention (wShallowMarsh) | Dry Extended Detention Ponds | NA | 6/11/2012 | Private | 087030810 | Blackwater | Unsegmented Rivers in K31 | 15.69 | 15.69 | 0.00 | 030102020102 | no | no | yes | NA | NA | -77.361 | 37.18626022 |
| 16 | 31 - UB | Go Cart Village | Yes | 6/3/2015 | no | 3268 | CRATER RD S | NA | Retention Basin I (3*WQ) | Wet Pond | NA | 9/7/2007 | Private | 088010808 | Blackwater | Blackwater Swamp | 4.17 | 1.63 | 2.54 | 030102020102 | no | no | yes | NA | NA | -77.3693 | 37.18650436 |
| 17 | 39 - C | Vernon Johns Middle School - BMP1 | Yes | 6/3/2015 | NA | 3101 | HOMESTEAD DR | NA | Extended Detention (30hr DD 2*WQ) | Dry Detention Ponds | NA | 6/30/2005 | Public | 079110013 | Lieutenant Run | Unsegmented rivers in J15 | 8.46 | 3.67 | 4.79 | 020802071001 | no | yes | no | NA | NA | -77.3964 | 37.18725586 |
| 18 | 42 - UB | People's Advantage Federal Credit Union | Inaccessible | 6/2/2015 | Yes | 3245 | CRATER RD S | NA | Constructed Wetlands (2*WQ) | Constructed Wetland | NA | 7/12/2007 | Private | 081060805 | Blackwater | Blackwater Swamp | 24.02 | 20.15 | 3.87 | 030102020102 | no | no | yes | NA | NA | -77.3675 | 37.18806458 |
| 19 | 93 - UB | Poplar Springs Hospital Psychiatric Unit Addition | No | | Yes | 350 | POPLAR DR | NA | Bioretention (0.5") | Bioretention, soils unknown | NA | 6/11/2012 | Private | 082020005 | Blackwater | Unsegmented Rivers in K31 | 1.21 | 0.93 | 0.28 | 030102020102 | no | no | yes | NA | NA | -77.3577 | 37.18691254 |
| 20 | 45A - UB | Virginia South Psychiatric & Family Services | Yes | 6/3/2015 | no | 259 | MEDICAL PARK BLV | NA | Proprietary Filter Structure | Water Quality Inlet | Filterra | 3/11/2011 | Private | 082020813 | Blackwater | Unsegmented Rivers in K31 | 0.40 | 0.40 | 0.00 | 030102020102 | no | no | yes | NA | NA | -77.363 | 37.18873215 |
| 21 | 45E - UB | Virginia South Psychiatric & Family Services | Yes | 6/3/2015 | no | 259 | MEDICAL PARK BLV | NA | Proprietary Filter Structure | Water Quality Inlet | Filterra | 3/11/2011 | Private | 082020813 | Blackwater | Unsegmented Rivers in K31 | 0.15 | 0.15 | 0.00 | 030102020102 | no | no | yes | NA | NA | -77.3634 | 37.18878937 |
| 22 | 45F - UB | Virginia South Psychiatric & Family Services | Yes | 6/3/2015 | no | 259 | MEDICAL PARK BLV | NA | Proprietary Filter Structure | Water Quality Inlet | Filterra | 3/11/2011 | Private | 082020813 | Blackwater | Unsegmented Rivers in K31 | 0.15 | 0.15 | 0.00 | 030102020102 | no | no | yes | NA | NA | -77.3635 | 37.18874359 |
| 23 | 45D - UB | Virginia South Psychiatric & Family Services | Yes | 6/3/2015 | no | 259 | MEDICAL PARK BLV | NA | Proprietary Filter Structure | Water Quality Inlet | Filterra | 3/11/2011 | Private | 082020813 | Blackwater | Unsegmented Rivers in K31 | 0.11 | 0.11 | 0.00 | 030102020102 | no | no | yes | NA | NA | -77.3634 | 37.1885967 |
| 24 | 45C - UB | Virginia South Psychiatric & Family Services | Yes | 6/3/2015 | no | 259 | MEDICAL PARK BLV | NA | Proprietary Filter Structure | Water Quality Inlet | Filterra | 3/11/2011 | Private | 082020813 | Blackwater | Unsegmented Rivers in K31 | 0.14 | 0.14 | 0.00 | 030102020102 | no | no | yes | NA | NA | -77.3633 | 37.18865204 |
| 25 | 45B - UB | Virginia South Psychiatric & Family Services | Yes | 6/3/2015 | no | 259 | MEDICAL PARK BLV | NA | Proprietary Filter Structure | Water Quality Inlet | Filterra | 3/11/2011 | Private | 082020813 | Blackwater | Unsegmented Rivers in K31 | 0.25 | 0.25 | 0.00 | 030102020102 | no | no | yes | NA | NA | -77.3624 | 37.18819809 |
| 26 | 90 - UB | Berkeley Estates | No | | No | 500 | OLD WAGNER RD | NA | Retention Basin II (4*WQ) | Wet Pond | NA | 5/5/2008 | Private | 083020001 | Blackwater | Unsegmented Rivers in K31 | 13.04 | 13.04 | 0.00 | 030102020102 | no | no | yes | NA | NA | -77.3512 | 37.188591 |
| 27 | 44 - UB | Social Security Administration | Yes | 6/3/2015 | no | 100 | POPLAR DRIVE | NA | Extended Detention (30hr DD 2*WQ) | Dry Detention Ponds | NA | 10/18/2005 | Private | 082020802 | Blackwater | Unsegmented Rivers in K31 | 1.52 | 1.51 | 0.01 | 030102020102 | no | no | yes | NA | NA | -77.3642 | 37.18929672 |
| 28 | 76 - UB | Dollar General | Yes | 6/3/2015 | Yes | 3105 | CRATER RD S | Extended Detention Level 1 | NA | Dry Extended Detention Ponds | NA | 9/9/2013 | Private | 085100006 | Blackwater | Blackwater Swamp | 0.71 | 0.04 | 0.67 | 030102020102 | no | no | yes | NA | NA | -77.3707 | 37.19023669 |
| 29 | 92 - UB | Southside Oral & Facial Surgery | Yes | 6/12/2015 | No | 575 | OLD WAGNER RD | NA | Extended Detention (30hr DD 2*WQ) | Dry Extended Detention Ponds | NA | 10/21/1994 | Private | 083010804 | Blackwater | Unsegmented Rivers in K31 | 1.38 | 0.54 | 0.84 | 030102020102 | no | no | yes | NA | NA | -77.351 | 37.18980408 |
| 30 | 5 - UB | Wagner Road Office Bldg | Yes | 6/2/2015 | Yes | | OLD WAGNER RD | NA | Extended Detention (30hr DD 2*WQ) | Dry Detention Ponds | NA | 9/21/2006 | Private | 083010805 | Blackwater | Unsegmented Rivers in K31 | 1.91 | 1.90 | 0.01 | 030102020102 | no | no | yes | NA | NA | -77.3502 | 37.19009018 |
| 31 | 6 - UB | Mitchell Wiggins | Yes | 6/3/2015 | no | 100 | FLANK RD | NA | Extended Detention (30hr DD 2*WQ) | Dry Detention Ponds | NA | 5/20/1993 | Private | 084100403 | Blackwater | Blackwater Swamp | 2.10 | 1.58 | 0.52 | 030102020102 | no | no | yes | NA | NA | -77.3751 | 37.19050217 |
| 32 | 7 - UB | BOEHRINGER INGELHEIM CHEMICALS | Inaccessible | | no | 2820 | NORMANDY DR N | NA | Retention Basin II (4*WQ) | Wet Pond | NA | 1/19/1978 | Private | 063010001 | Blackwater | Unsegmented Rivers in K31 | 4.43 | 4.20 | 0.23 | 030102020102 | no | no | yes | GP | VAR050693 | -77.3529 | 37.19185257 |
| 33 | 71 - RUC | Ridgewood Subdivision. Found in water layer. | Inaccessible | | no | | RIDGWOOD DR | NA | Retention Basin I (3*WQ) | Wet Pond | NA | 6/30/2005 | Private | 096030800 | Lieutenant Run | Lieutenant Run | 17.84 | 14.22 | 3.62 | 020802071001 | yes | yes | yes | NA | NA | -77.4126 | 37.20043945 |
| 34 | 87 - RUC | South Hills Subdivision | Yes | 6/2/2015 | Yes | 1795 | WEST LANE | NA | Enhanced Extended Detention (wShallowMarsh) | Dry Extended Detention Ponds | NA | 12/10/2012 | Private | 050110814 | Brickhouse Run | Appomattox River | 8.32 | 8.28 | 0.04 | 020802071001 | yes | yes | yes | NA | NA | -77.4304 | 37.20127201 |
| 35 | 30 - RUC | Zion Apostolic Church | Yes | 6/2/2015 | no | 1601 | YOUNGS RD | NA | Extended Detention (30hr DD 2*WQ) | Dry Detention Ponds | NA | 10/15/2012 | Private | 051070004 | Brickhouse Run | Appomattox River | 4.35 | 1.16 | 3.19 | 020802071001 | yes | yes | yes | NA | NA | -77.4251 | 37.20545578 |
| 36 | 8 - RUC | NEW FIRST BAPTIST CH TRUSTEES | Yes | 6/2/2015 | no | 1401 | GRANT AVE | NA | Bioretention (0.5") | Bioretention, soils unknown | NA | 5/5/1976 | Private | 051120001 | Brickhouse Run | Appomattox River | 1.24 | 0.76 | 0.48 | 020802071001 | yes | yes | yes | NA | NA | -77.4205 | 37.20560324 |
| 37 | 70 - RUC | Streetwiesler Dunedin | Yes | 6/5/2015 | no | 2456 | DUPUY RD | NA | Retention Basin II (4*WQ) | Wet Pond | NA | 5/31/2013 | Private | 049020008 | Rohoic Creek | Rohoic Creek | 36.79 | 31.82 | 4.97 | 020802071001 | yes | yes | yes | NA | NA | -77.4416 | 37.20556641 |
| 38 | 94A - B | Boars Head Brand | No | | No | 1950 | INDUSTRY PL | NA | Extended Detention (30hr DD 2*WQ) | Dry Detention Ponds | NA | 11/20/2012 | Private | 096010801 | Second Swamp | Second Swamp | 13.11 | 11.11 | 1.99 | 030102020101 | no | no | no | GP | VAR051776 | -77.4152 | 37.17633438 |
| 39 | 33 - UB | Martin's Food Market | Yes | 6/3/2015 | no | 3330 | CRATER RD S | NA | Extended Detention (30hr DD 2*WQ) | Dry Detention Ponds | NA | 11/27/1985 | Private | 088010009 | Blackwater | Blackwater Swamp | 13.96 | 2.64 | 11.32 | 030102020102 | no | no | yes | NA | NA | -77.3687 | 37.18386078 |
| 40 | 86 - UB | Scott's Apartments | Yes | 6/2/2015 | Yes | 2773 | COUNTY DR | NA | Constructed Wetlands (2*WQ) | Constructed Wetland | NA | 11/18/2008 | Private | 039030002 | Blackwater | Blackwater Swamp | 1.10 | 0.89 | 0.21 | 030102020102 | no | no | yes | NA | NA | -77.3473 | 37.20957184 |
| 41 | 73 - UB | West Park Subdivision | Yes | 6/5/2015 | no | | | NA | Retention Basin I (3*WQ) | Wet Pond | NA | 6/30/2005 | Private | 031030013 | Blackwater | Unsegmented Rivers in K31 | 33.11 | 32.14 | 0.97 | 030102020102 | no | no | yes | NA | NA | -77.3867 | 37.18763733 |
| 42 | 60 - RUC | Metropolitan Baptist Church | Yes | 6 | | | | | | | | | | | | | | | | | | | | | | | |