

City of Richmond

Municipal Separate Storm Sewer System

2017 - 2018 Annual Report

Introduction

This annual report covers the reporting cycle July 1, 2017 through June 30, 2018 - year 5 for General Permit No. VAR040005 for the City of Richmond. The report includes the status of compliance with the permit conditions, the appropriateness of the best management practices and progress towards achieving the identified measurable goals for each of the minimum control measures, and the reporting requirements of the general permit.

The Department of Public Utilities (DPU) hired a new Director in May of 2018. DPU administers all aspects of stormwater management including operation and maintenance, design, construction, and regulatory compliance.

The city had two new outfalls at the following locations:

Address	# of Outfalls	HUC	Drainage Area
25 Westhampton Way	1	2080205607	.64 ac
1401 German School Road	1	2080205607	17.41

There have been no changes to any identified BMPs or any of our measurable goals for this reporting cycle.

Integrated Planning and the MS4

In 2017, DPU completed the development of an Integrated Watershed Management Plan (Clean Water Plan) to address all sectors of regulated water – wastewater treatment, combined sewer system and the MS4. The Clean Water Plan will address pollution to the James River and tributaries located in the City.

Historically, the three sectors were managed independently of one another, due to the regulations and permit requirements applicable independently of one another. This approach forced the City to make decisions related to compliance for each utility without being able to consider the interrelated impacts, especially on local waterways. Integration of all of the separate programs into a coordinated approach will eliminate redundant activities, be more efficient and effective in addressing wet weather impacts, and improve water resources overall. Our Clean Water Plan allows the City to efficiently evaluate, manage, and implement water quality programs and work toward achieving their goals and objectives.

Our approach is divided into four sections – Stakeholder Involvement, Watershed Characterization, Strategy Identification and Selection and Implementation.

The City believes that community input and support are key to the success of the Clean Water Plan, as this facilitates development of an integrated VPDES permit as well as future implementation efforts. This input and support is necessary to implementing a thoughtful, well-informed approach that demonstrates our commitment to improving the environment while continuing our good stewardship of infrastructure assets and local water resources. Community support is especially important in considering priorities and options for improving and protecting the City's waters. Our stakeholders include other local governments, non-profit organizations, educational institutions and recreational river users.

The first step we took was to evaluate our watersheds. The watershed characterization process provides the data needed to support this process. This includes monitoring related to meeting receiving water standards and goals, and characterizing receiving water conditions and sources of pollutants throughout the watershed. Evaluating data from a watershed perspective helps to facilitate a watershed-based approach to planning and, subsequently, implementation. Ongoing data collection will ensure the Clean Water Plan is up-to-date and accurate, and will facilitate future updates using an adaptive management approach. One beneficial outcome will be that data collected through watershed characterization efforts will serve multiple purposes. For example, the activities associated with the TMDL development and implementation will help determine appropriate targets for the Clean Water Plan.

The data collected through the watershed characterization effort serves as the basis for helping to identify and quantify problems or issues of concern within the watersheds. This helped guide the selection of goals and objectives the stakeholders initially identified. As high-level strategies are identified, they are evaluated by weighting of these goals, associated objectives, and metrics by which these strategies are measured. Other factors, such as strategy costs, cost effectiveness, and watershed and water quality modeling results are also used to prioritize strategies.

We have an active and informed group that will continue to meet and evaluate the progress on the strategies used to achieve the goals of the Plan as we begin implementation. We have committed to continuing engagement and partnerships with our stakeholders. We will continue to monitor and share our progress on the metrics assigned to each goal.

The City of Richmond does not rely on another government entity to satisfy any of the permit obligations.

Water Quality Monitoring & Data Summary

Monitoring data collected by city staff during this reporting cycle from the following creeks (Albro Creek, Almond Creek, Along Creek, Broad Rock Creek, Crooked Branch, Dooley's Branch, Goode's Creek, Grindall Creek, Horse Swamp Creek, and Shockoe Creek. Data are in Appendix A-1. Samples collected by volunteers and analyzed by the DPU laboratory are included in the Attachment. Creeks sampled by volunteers include Gillie's Creek, Pocosham Creek, Princeton Creek, Rattlesnake Creek, Reedy Creek, Stoney Run and Upham Brook.

The City has continued its Water Quality Monitoring Project with VCU. Four points along the

James River are monitored. Six tributary locations were selected this year – Gillie’s, Upham Brook, Broad Rock, Reedy Creek, Pocosham Creek and Rattlesnake Creek. A VCU-DPU Water Quality Monitoring Report is in Appendix A-2. A VCU Monitoring Work Plan is in Appendix A-3.

A total of 54 outfall screenings were conducted. A summary is in Appendix C-1. Outfall Screening Data is in Appendix C-2.

The City investigated twenty-two (22) illicit discharges during this reporting cycle. A summary is provided in Appendix C-3.

There were a total number of 168 new regulated land disturbing activities during the year and 311 acres disturbed. A list of new structural controls placed in operation during the permit cycle is included in Appendix D.

MS4 Program Plan Compliance Status

1. Public Education & Outreach on stormwater impacts

Purpose

The objective of this BMP is to increase target audience knowledge about steps to take to reduce stormwater pollution and about the hazards of illegal discharges and improper waste disposal.

Measurable Goals

1a. Continue Public Education and Outreach program

1b. Program goals:

1. Increase knowledge on reducing stormwater pollution,
2. Increase knowledge on illegal discharge/improper waste disposal hazards, and
3. Target program to audiences most likely to have significant stormwater impacts

1c. Program components:

1. ID three high priority water quality issues, including selection rationale

The three water quality issues we will focus our efforts on are:

1. *Pollution Prevention and Illicit Discharge Awareness*
2. *Reducing bacteria pollution from pet waste*
3. *Reducing nutrient pollution from improper application of fertilizers*

2. ID and estimate target population size of audience who has most impact

3. Develop messages to targeted audiences
4. Provide for public participation
5. Reach 20% of target audience
6. Adjust messages as necessary.

Our estimates for target audiences for each of the issues are as follows:

Water Quality Issue	Target Audience Population	Target Audience Population
PP Awareness	All city residents	215,000
Pet Waste	Dog owners	56,000
Nutrient pollution	City residents, lawn care professionals	50,000

1d. Coordinate with other MS4s

The utility continued to attend Middle James Round Table quarterly meetings with surrounding jurisdictions. The City provided comments and ideas to a new regional anti-litter campaign organized by Richmond for Regional Tourism, to include at least six surrounding localities. In the spring of 2018, the Utility held its first Faith Based Environmental Workshop with the Maymont Foundation. Six local churches attended the two-hour workshop to learn how to achieve water quality using LID on their existing sites. Additional speakers at the workshop were the Chesapeake Bay Foundation and the Alliance for the Bay.

Schedule of Activities held this Reporting Cycle

In addition to the activities listed below, the Utility held other events and attended several outreach events where we spoke to many people about environmental education. For the first time, in conjunction with the Office of Multilingual Affairs, the utility attended the Imagine festival where we provided stormwater outreach to our Spanish speaking population. We attended several pet-owner events to promote our Pick up the Poop campaign including Petals and Paws, two separate Bark in the Park events, Halloween Howl, and the Blessing of the Animals. As a service to our city, the Utility continuously attends town hall meetings at the request of the Council members to educate citizens about pollution prevention, stormwater awareness and the harmful effects of dog waste and its contribution of bacteria to our waterways. During the reporting period, we also attended Office of Emergency Management preparedness day, AARP Senior day, and a Pfizer environmental day.



High Priority Issue #1: Pollution Prevention & Illicit Discharge Awareness

Measureable Goal	Est. # of People Reached	Est. % of Target Audience Reached	Actual # of people reached
Distribute commercials/PSAs	200,000 x 10 views	7.5 %	5,300,000
Social Media	10,000	20%	1,796
Billboard campaign	200,000 x 10 views	5.0%	1,322,052
Storm Drain Art	50,000 pedestrians/yr.	5.0%	91,000
Educate Richmond Public Schools	3263	20%	3585
Civic Association Meetings	1,200	20%	300
Stormwater Newsletter			57,000

Measureable Goal	Est. # of lbs collected		Actual # lbs collected
Household Hazardous Waste Collection (Paint, Pesticides, aerosols)	1,000		4,389



*RPS Rain Barrel Contest
On Display at City Hall 2018*

High Priority Issue #2: Bacteria

Measureable Goal	Est. # of bags or views	Est. % of Target Audience Reached	Actual # of people reached	Actual % of target audience reached
Provide pet waste bags to DPR	125,000	12.2 %	150,000	24 %
Billboard campaign	200,000 x 10 views	5.0 %	2,800,000	10 %
Public Service Announcements	200,000 x 10 views	7.5 %	5,300,000	18 %



*Spanish Billboard
It All Drains to the James 2018*

High Priority Issue #3: Nutrient Reduction

Measureable Goal	Est. # of People Reached	Est. % of Target Audience Reached	Actual # of people reached	Actual % of target audience reached
Public Service Announcement	200,000 x 10 views	7.5 %	5,300,000	18 %
Billboard Campaign	200,000 x 10 views	5%	1,350,052	10 %

Schedule of Activities for Next Reporting Cycle

During the next year, DPU will continue its public education efforts. The list of activities planned for next year is in Appendix B

2. Public Involvement & Participation

Purpose

The objective of this BMP is to be a tool to promote public involvement in preventing polluted stormwater runoff from reaching the MS4.

Measurable Goals

2a. Maintain & post online an updated MS4 Program Plan.

A link to the MS4 Program Plan is here [2013 - 2018 MS4 Program Plan](#). A link to the Annual Report is [here](#).

2b. Participate, through promotion, sponsorship, or other involvement, in a minimum of four local activities annually.



*Clean Up in
Scotts Addition
August 2017*



*Festival of the River
June 2018*

As evidence of our Public Participation effort, Stormwater Utility staff participated and/or planned the following activities held during the reporting period:

Activity	Pollutant Target	Audience
Drain Marking Program	Pollution Prevention	residents
Festival of the River	Stormwater Awareness	residents
Rain Barrel Contest	Stormwater Awareness	residents
Scott's Addition Clean Up Day	Pollution Prevention	residents

2c. The MS4 Program Plan shall include written procedures for implementing this program.

During the next year, DPU will continue its public outreach efforts. The list of activities planned for next year is in Appendix B.

The [2013 - 2018 MS4 Program Plan](#) located [here](#) provides written procedures for implementing this program.

2d. Maintain & post online an updated MS4 Annual Report and Documentation of Public Participation.

A link to the Annual Report is [here which includes details regarding public participation requirements](#).

3. Illicit Discharge Detection and Elimination

Purpose

The objective of this Minimum Control Measure is to reduce the discharge of pollutants from the MS4, to protect water quality and ensure compliance with water quality standards and with the Clean Water Act. DPU has a process to investigate and reduce illicit discharges through the industrial pretreatment program and the Community Assisted Public Safety (CAPS) program.

Measurable Goals

3a. Maintain an accurate storm sewer system map and information table.

The DPU completed its outfall map in 2017 and continues to map new outfalls as they are installed.

3b. DPU has an ordinance that prohibits non-stormwater discharges into the storm sewer system, in accordance with federal, state, and local laws and regulations.

The ordinance that prohibits non-stormwater discharges is [here](#).

3c. DPU has procedures to inspect and identify unauthorized non-stormwater discharges, including illegal dumping to the MS4.

3e. The department has procedures to inspect and identify unauthorized non-stormwater discharges.

3f. The total number of outfalls screened during the reporting period was 54; 34 of the outfalls were dry, leaving 20 outfalls discharging. After reporting problems to the appropriate departments for repair, samples were collected from these outfalls. A list of outfall screenings is in Appendix C-1. Analytical results for the discharging outfalls are included in Appendix C2. There were no new interconnections identified this reporting cycle.

Pretreatment staff investigated 22 illicit discharges during this reporting cycle. A summary is included in Appendix C-3.

Schedule of Activities for Next Reporting Cycle

Throughout the permit term, DPU will continue to investigate and eliminate illicit discharges through the Industrial Waste & Pretreatment and CAPS programs.

4. Construction Site Stormwater Runoff Control

Purpose

The objective is to administer an erosion and sediment control program in accordance with the Virginia Erosion and Sediment Control Regulations, Section 4VAC50-30-40.

Measurable Goals

4a. Applicable oversight

The program compiled the following statistics for construction site inspections during the reporting period:

ESC Activity	#
Total # of regulated land-disturbing activities	168
Total # of acres disturbed	311
Total # of inspections conducted	2137
Total # of enforcement actions taken	81
Notice to Comply	73
Stop Work Orders	8

Schedule of Activities for Next Reporting Cycle

DPU will continue to manage the ESC program.

5. Post-construction stormwater management in new development and development on prior developed lands

Purpose

The objective is address post-construction stormwater runoff that enters the MS4 from new development and development of prior developed lands.

Measurable Goal

- 5a. Maintain applicable oversight requirements
- 5b. Require design criteria for stormwater runoff controls
- 5c. Inspect operate and verify maintenance of stormwater management facilities
- 5d. Have an updated Program Plan
- 5e. Track stormwater management facilities.

A list of the stormwater management facilities brought online is in Appendix D.

Post-construction Activity	#
Total # of inspections conducted	85
Total # of enforcement actions taken	4
Notice to Comply	0

Schedule of Activities for Next Reporting Cycle

DPU will continue to monitor and track both private and public stormwater management facilities.



*Photos of the new green alley. Lorraine Ave
November 2017*

6. Pollution prevention/good housekeeping for municipal operations

Purpose

The objective is to minimize or prevent pollutant discharge from daily operations (road and parking lot maintenance, bulk material storage, etc.) The objective is to prevent pollution at operations facilities from entering the MS4.

Measurable Goal

- 6a. Minimize or prevent pollution from daily operations;
- 6b. Identify all municipal high priority (9 types) facilities, and their activities that could contribute to pollution and develop SWPPPs for such facilities.

Summary Report High Priority Facilities with SWPPPs

Owner	Facility Name	Facility Address	Operations	SWPPP?	Notes
DPW	Grounds Maintenance	6120 Warwick Road	ESM, MS, PSF	Yes	MS4
DPW	First Tee Public Golf Course	500 School Street	ESM, MS, PSF	Yes	CS
DPR	JRPS Headquarters	4201 Riverside Drive	ESM, MS, VSM	Yes	MS4
DPR	Forest Hill Park Field Office	4001 Stonewall Avenue	ESM, MS, PSF	Yes	CS, MS4
DPR	Byrd Park Field Office	2301 Amelia Street	ESM, MS, PSF	Yes	MS4
DPR	Oakwood Cemetery	3511 E. Richmond Road	ESM, MS	Yes	MS4
DPR	Riverview Cemetery	1305 Randolph Street	ESM, MS, PSF	Yes	CS, MS4
DPR	Maury-Mount Olivette Cemetery	2700 Maury Street	ESM, MS, PSF	Yes	MS4
DPU	DPU Operations Center	400 Jefferson Davis Highway	ESM, MS, PSF	Yes	CS, MS4
DPU	DPU Stormwater O & M	1801 Commerce Road	VMS, ESM, MS	Yes	MS4
DPR	DPR Operations Center	814 Forest Lawn Dr	ESM, MS	Yes	MS4
DPW	Commerce Road Fleet Facility	1700 Commerce Road	VSM, MS	Yes	CMS4
DPW	E. Richmond Road Landfill	3800 E. Richmond Road	MS, RF, VSM	Yes	MS4
DPW	Hopkins Road Facility	3502 Hopkins Road	ESM, MS, SSF, SWF	Permit	MS4
DPW	Urban Forestry	800 Forest Lawn Drive	ESM, VSM	Yes	MS4

CF – composting facilities, ESM = Equipment Storage & Maintenance, MS = Material Storage, PSF = pesticide storage facility, PW = public works, RF = recycling facility, SSF – salt storage facility, SWF = solid waste handling and transfer, VSM = vehicle storage and maintenance

6c. Implement turf and landscape management plans for all areas greater than 1 acre that apply nutrients:

The only applicable land owned by the City of Richmond which nutrients are applied is City Stadium. A copy of the City Stadium Application fertilizer application schedule is in Appendix E. A copy of the Department of Public Works Safety Data Sheet for De-Icer is in Appendix F.

6d. Conduct training for employees;

City staff developed a training program for stormwater awareness for all city employees and for those employees involved in areas that are likely to have an effect on the MS4.

The program covers spill prevention, vehicle maintenance, bulk material storage, road and parking lot maintenance and facility maintenance. We developed a biennial training schedule to reach the appropriate personnel. These four training modules are available on the City's internal training website to allow easy access for new employees.

Training Date	Objective	Department/Group	# of employees attending
Monthly	Stormwater Pollution Prevention	New Employees (Police, DPU, Parks & Rec, Finance, Sherriff's Dept., Social Services)	319
Varies	MS4 - Facility & Maintenance Stormwater Pollution Prevention	DPU	271
Varies	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	DPU	239
Varies	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	DPU	240

A list of employees who completed the stormwater awareness and pollution prevention training is in Appendix G.

Schedule of Activities for Next Reporting Cycle

City will continue the same schedule for training as presented above.

6e. Require municipal contractors use appropriate control measures for stormwater discharges.

The city has incorporated Annual Contract Specifications for Erosion & Sediment Control to ensure municipal contractors use appropriate control measures for stormwater discharges. A copy of the Annual Contract Specification Section is in Appendix H.

Special Condition for the Chesapeake Bay TMDL Reporting

The city's Chesapeake Bay TMDL was previously submitted and approved by DEQ. The Chesapeake Bay TMDL Action Plan is located on the city's website [here](#).

As stated in the Chesapeake Bay TMDL Action plan, reductions achieved above those required for the permit term will apply to the next permit term.

Reductions achieved to date:

Pollutant	CBP Loading, lbs	Total Required Reductions, lbs	2013- 2018 Required Reductions, lbs	2013 – 2018 Actual Reductions, lbs	Reductions applied to next permit cycle, lbs
Nitrogen	166,955.30	12,069.75	633.73	3,206.19	2,572.46
Phosphorus	19,812.54	2,558.95	145.50	691.84	546.34
Sediment	6,630,597.82	1,134,901.1	64,626.36	106,344.82	41,718.46

Notes:

Projects completed before 2018: Maury Stream Restoration, Green Alleys, Cherokee Lake and Forest Hill forebays

Projects planned for 2nd permit cycle: Pocosham Creek, Little Westham Creek Restoration, Rattlesnake Creek Restoration, more green infrastructure

CBP Loading from 5.3.2 Model run

The James River Bacteria TMDL Action Plan was completed in June 2016.

APPENDIX A1

Volunteer Monitoring Data											
Horse Swamp Creek											
SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB43549	RVA-HSC	2/27/2018	10:38	MW	pH		7.2		su	SM18/4500H+ B	MW
AB43549	RVA-HSC	2/27/2018	10:38	MW	Temperature in °C		8.9		°C	SM 20 2550 B	MW
AB43549	RVA-HSC	2/27/2018	10:38	MW	Ammonia by TNT		0.100	0.015	mg/L	HACH	MEM
AB43549	RVA-HSC	2/27/2018	10:38	MW	E. Coli		291	1	MPN/100 mL	SM 20 9223 B	FB
AB43549	RVA-HSC	2/27/2018	10:38	MW	Total Nitrogen		2.94	1	mg/L	TN HACH	MEM
AB43549	RVA-HSC	2/27/2018	10:38	MW	Total Suspended Solids		1	1	mg/L	SM18/2540 D	KP
AB44873	RVA-HSC	3/28/2018	10:20	MW	pH		7.7		su	SM18/4500H+ B	MW
AB44873	RVA-HSC	3/28/2018	10:20	MW	Temperature in °C		8.9		°C	SM 20 2550 B	MW
AB44873	RVA-HSC	3/28/2018	10:20	MW	Ammonia by TNT		0.107	0.015	mg/L	HACH	TH
AB44873	RVA-HSC	3/28/2018	10:20	MW	E. Coli		186	1	MPN/100 mL	SM 20 9223 B	KA
AB44873	RVA-HSC	3/28/2018	10:20	MW	Total Nitrogen		2.07	1	mg/L	TN HACH	TH
AB44873	RVA-HSC	3/28/2018	10:20	MW	Total Suspended Solids		<1	1	mg/L	SM18/2540 D	KMD
AB46233	RVA-HSC	4/30/2018	09:45	MW	Temperature in °C		11.2		°C	SM 20 2550 B	MW
AB46233	RVA-HSC	4/30/2018	09:45	MW	Ammonia by TNT		0.294	0.015	mg/L	HACH	TM
AB46233	RVA-HSC	4/30/2018	09:45	MW	E. Coli		248	1	MPN/100 mL	SM 20 9223 B	FB
AB46233	RVA-HSC	4/30/2018	09:45	MW	Total Nitrogen		1.76	1	mg/L	TN HACH	TM
AB46233	RVA-HSC	4/30/2018	09:45	MW	Total Suspended Solids		1	1	mg/L	SM18/2540 D	KMD
AB46233	RVA-HSC	4/30/2018	09:45	MW	pH		7.5		su	SM 20 4500 H+ B	MW
Jordan's Branch											
SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB34131	RVA-JOR01	7/31/2017	13:15	DD/MS	Ammonia by TNT		0.153	0.015	mg/L	HACH	TH
AB34131	RVA-JOR01	7/31/2017	13:15	DD/MS	E. Coli		29	1	MPN/100 mL	SM 20 9223 B	KAA
AB34131	RVA-JOR01	7/31/2017	13:15	DD/MS	Total Nitrogen		2.73	1	mg/L	TN HACH	TH
AB34131	RVA-JOR01	7/31/2017	13:15	DD/MS	Total Suspended Solids		2	1	mg/L	SM18/2540 D	KD
AB34131	RVA-JOR01	7/31/2017	13:15	DD/MS	pH		7.1		su	SM 20 4500 H+ B	DD/MS
AB35433	RVA-JOR01	9/1/2017	10:25	DD	Ammonia by TNT		0.132	0.015	mg/L	HACH	TH
AB35433	RVA-JOR01	9/1/2017	10:25	DD	E. Coli		1550	1	MPN/100 mL	SM 20 9223 B	FB
AB35433	RVA-JOR01	9/1/2017	10:25	DD	Total Nitrogen		3.62	1	mg/L	TN HACH	TH
AB35433	RVA-JOR01	9/1/2017	10:25	DD	Total Suspended Solids		4	1	mg/L	SM18/2540 D	JNM
AB35433	RVA-JOR01	9/1/2017	10:25	DD	pH		7.0		su	SM 20 4500 H+ B	DD
AB39631	RVA-JOR01	11/21/2017	13:40	DD	Ammonia by TNT		0.330	0.015	mg/L	HACH	TM
AB39631	RVA-JOR01	11/21/2017	13:40	DD	E. Coli		61	1	MPN/100 mL	SM 20 9223 B	FB
AB39631	RVA-JOR01	11/21/2017	13:40	DD	Total Nitrogen		3.67	1	mg/L	TN HACH	TM
AB39631	RVA-JOR01	11/21/2017	13:40	DD	Total Suspended Solids		2	1	mg/L	SM18/2540 D	KFS
AB39632	RVA-JOR01	11/21/2017	14:25	DD	Ammonia by TNT		0.121	0.015	mg/L	HACH	TM
AB39632	RVA-JOR01	11/21/2017	14:25	DD	E. Coli		30	1	MPN/100 mL	SM 20 9223 B	FB
AB39632	RVA-JOR01	11/21/2017	14:25	DD	Total Nitrogen		1.74	1	mg/L	TN HACH	TM
AB39632	RVA-JOR01	11/21/2017	14:25	DD	Total Suspended Solids		2	1	mg/L	SM18/2540 D	KFS
AB40863	RVA-JOR01	12/21/2017	12:30	DD/MS	Temperature in °C		12.4		°C	SM 20 2550 B	DD/MS
AB40863	RVA-JOR01	12/21/2017	12:30	DD/MS	Ammonia by TNT		0.123	0.015	mg/L	HACH	TM
AB40863	RVA-JOR01	12/21/2017	12:30	DD/MS	E. Coli		34	1	MPN/100 mL	SM 20 9223 B	FAB
AB40863	RVA-JOR01	12/21/2017	12:30	DD/MS	Total Nitrogen		3.70	1	mg/L	TN HACH	TM
AB40863	RVA-JOR01	12/21/2017	12:30	DD/MS	pH		7.3		su	SM 20 4500 H+ B	DD/MS
AB40863	RVA-JOR01	12/21/2017	12:30	DD/MS	Total Suspended Solids		3	1	mg/L	SM18/2540 D	KMD
AB42159	RVA-JOR01	1/24/2018	12:45	DD/MS	pH		7.0		su	SM18/4500H+ B	DD/MS
AB42159	RVA-JOR01	1/24/2018	12:45	DD/MS	Temperature in °C		11.1		°C	SM 20 2550 B	DD/MS
AB42159	RVA-JOR01	1/24/2018	12:45	DD/MS	Ammonia by TNT		0.274	0.015	mg/L	HACH	KAA
AB42159	RVA-JOR01	1/24/2018	12:45	DD/MS	E. Coli		659	1	MPN/100 mL	SM 20 9223 B	TH
AB42159	RVA-JOR01	1/24/2018	12:45	DD/MS	Total Nitrogen		2.78	1	mg/L	TN HACH	KAA
AB42159	RVA-JOR01	1/24/2018	12:45	DD/MS	Total Suspended Solids		32	1	mg/L	SM18/2540 D	KMD
AB43276	RVA-JOR01	2/20/2018	10:45	DD/MS	pH		6.8		su	SM18/4500H+ B	KMD
AB43276	RVA-JOR01	2/20/2018	10:45	DD/MS	Temperature in °C		12.5		°C	SM 20 2550 B	KMD
AB43276	RVA-JOR01	2/20/2018	10:45	DD/MS	Ammonia by TNT		0.472	0.015	mg/L	HACH	MEM
AB43276	RVA-JOR01	2/20/2018	10:45	DD/MS	E. Coli		411	1	MPN/100 mL	SM 20 9223 B	FB
AB43276	RVA-JOR01	2/20/2018	10:45	DD/MS	Total Nitrogen		3.90	1	mg/L	TN HACH	MEM
AB43276	RVA-JOR01	2/20/2018	10:45	DD/MS	Dissolved Oxygen		7.4		mg/L	SM18/4500-O G	KMD

Jordon's Branch (Continued)

SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB43276	RVA-JOR01	2/20/2018	10:45	DD/MS	Total Suspended Solids		7	1	mg/L	SM18/2540 D	KP
AB44876	RVA-JOR01	3/29/2018	12:45	DD/MS	pH		7.0		su	SM18/4500H+ B	DD/MS
AB44876	RVA-JOR01	3/29/2018	12:45	DD/MS	Temperature in °C		17.2		°C	SM 20 2550 B	DD/MS
AB44876	RVA-JOR01	3/29/2018	12:45	DD/MS	Ammonia by TNT		0.378	0.015	mg/L	HACH	TH
AB44876	RVA-JOR01	3/29/2018	12:45	DD/MS	E. Coli		No data	1	MPN/100 mL	SM 20 9223 B	TH
AB44876	RVA-JOR01	3/29/2018	12:45	DD/MS	Total Nitrogen		3.92	1	mg/L	TN HACH	TH
AB44876	RVA-JOR01	3/29/2018	12:45	DD/MS	Total Suspended Solids		6	1	mg/L	SM18/2540 D	KMD
AB44876	RVA-JOR01	3/29/2018	12:45	DD/MS	Dissolved Oxygen		8.6		mg/L	SM18/4500-O G	DD/MS
AB46137	RVA-JOR01	4/26/2018	12:00	DD/MS	pH		6.9		su	SM18/4500H+ B	DD/MS
AB46137	RVA-JOR01	4/26/2018	12:00	DD/MS	Temperature in °C		17.9		°C	SM 20 2550 B	DD/MS
AB46137	RVA-JOR01	4/26/2018	12:00	DD/MS	Ammonia by TNT		0.326	0.015	mg/L	HACH	KAA
AB46137	RVA-JOR01	4/26/2018	12:00	DD/MS	E. Coli		206	1	MPN/100 mL	SM 20 9223 B	KA
AB46137	RVA-JOR01	4/26/2018	12:00	DD/MS	Total Nitrogen		3.55	1	mg/L	TN HACH	KAA
AB46137	RVA-JOR01	4/26/2018	12:00	DD/MS	Total Suspended Solids		4	1	mg/L	SM18/2540 D	KP
AB46137	RVA-JOR01	4/26/2018	12:00	DD/MS	Dissolved Oxygen		6.6		mg/L	SM18/4500-O G	DD/MS
AB47700	RVA-JOR01	5/31/2018	09:45	DD/MS	Temperature in °C		21.6		°C	SM 20 2550 B	DD/MS
AB47700	RVA-JOR01	5/31/2018	09:45	DD/MS	Ammonia by TNT		0.114	0.015	mg/L	HACH	MEM
AB47700	RVA-JOR01	5/31/2018	09:45	DD/MS	E. Coli		1990	1	MPN/100 mL	SM 20 9223 B	JNM
AB47700	RVA-JOR01	5/31/2018	09:45	DD/MS	Total Nitrogen		3.00	1	mg/L	TN HACH	MEM
AB47700	RVA-JOR01	5/31/2018	09:45	DD/MS	Total Suspended Solids		5	1	mg/L	SM18/2540 D	KP/DT
AB47700	RVA-JOR01	5/31/2018	09:45	DD/MS	Dissolved Oxygen		4.9		mg/L	SM18/4500-O G	DD/MS
AB47700	RVA-JOR01	5/31/2018	09:45	DD/MS	pH		6.88		su	SM 20 4500 H+ B	DD/MS
AB49016	RVA-JOR01	6/28/2018	10:25	DD/MS	pH		6.94		su	SM18/4500H+ B	DD/MS
AB49016	RVA-JOR01	6/28/2018	10:25	DD/MS	Temperature in °C		23.5		°C	SM 20 2550 B	DD/MS
AB49016	RVA-JOR01	6/28/2018	10:25	DD/MS	Ammonia by TNT		0.264	0.015	mg/L	HACH	KAA
AB49016	RVA-JOR01	6/28/2018	10:25	DD/MS	E. Coli		387	1	MPN/100 mL	SM 20 9223 B	FAB
AB49016	RVA-JOR01	6/28/2018	10:25	DD/MS	Total Nitrogen		4.75	1	mg/L	TN HACH	KAA
AB49016	RVA-JOR01	6/28/2018	10:25	DD/MS	Total Suspended Solids		4	1	mg/L	SM18/2540 D	JNM
AB49016	RVA-JOR01	6/28/2018	10:25	DD/MS	Dissolved Oxygen		6.2		mg/L	SM18/4500-O G	DD/MS
Pocosham Creek											
SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB46099	RVA-POC01	4/25/2018	11:45	AC	pH		7.7		su	SM18/4500H+ B	LC
AB46099	RVA-POC01	4/25/2018	11:45	AC	Temperature in °C		14.6		°C	SM 20 2550 B	LC
AB46099	RVA-POC01	4/25/2018	11:45	AC	Ammonia by TNT		0.054	0.015	mg/L	HACH	FB
AB46099	RVA-POC01	4/25/2018	11:45	AC	E. Coli		1990	1	MPN/100 mL	SM 20 9223 B	KAA
AB46099	RVA-POC01	4/25/2018	11:45	AC	Total Nitrogen		1.26	1	mg/L	TN HACH	FB
AB46099	RVA-POC01	4/25/2018	11:45	AC	Total Suspended Solids		33	1	mg/L	SM18/2540 D	JM
AB41872	RVA-POC01	1/16/2018	13:15	AC	Ammonia by TNT		0.535	0.015	mg/L	HACH	KAA
AB41872	RVA-POC01	1/16/2018	13:15	AC	E. Coli		84	1	MPN/100 mL	SM 20 9223 B	TH
AB41872	RVA-POC01	1/16/2018	13:15	AC	Total Nitrogen		1.55	1	mg/L	TN HACH	KAA
AB41872	RVA-POC01	1/16/2018	13:15	AC	Total Suspended Solids		3	1	mg/L	SM18/2540 D	KMD

Princeton Creek											
SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB34132	RVA-PRC01	7/31/2017	13:50	DD/MS	Ammonia by TNT		0.081	0.015	mg/L	HACH	TH
AB34132	RVA-PRC01	7/31/2017	13:50	DD/MS	E. Coli		270	1	MPN/100 mL	SM 20 9223 B	CAA
AB34132	RVA-PRC01	7/31/2017	13:50	DD/MS	Total Nitrogen		1.37	1	mg/L	TN HACH	TH
AB34132	RVA-PRC01	7/31/2017	13:50	DD/MS	Total Suspended Solids		4	1	mg/L	SM18/2540 D	KD
AB34132	RVA-PRC01	7/31/2017	13:50	DD/MS	pH		7.7		su	SM 20 4500 H+ B	DD/MS
AB35434	RVA-PRC01	9/1/2017	11:40	DD	Ammonia by TNT		0.035	0.015	mg/L	HACH	TH
AB35434	RVA-PRC01	9/1/2017	11:40	DD	E. Coli		687	1	MPN/100 mL	SM 20 9223 B	FB
AB35434	RVA-PRC01	9/1/2017	11:40	DD	Total Nitrogen		1.87	1	mg/L	TN HACH	TH
AB35434	RVA-PRC01	9/1/2017	11:40	DD	Total Suspended Solids		3	1	mg/L	SM18/2540 D	JNM
AB35434	RVA-PRC01	9/1/2017	11:40	DD	pH		7.0		su	SM 20 4500 H+ B	DD
AB40864	RVA-PRC01	12/21/2017	13:15	DD/MS	Temperature in °C		8.3		°C	SM 20 2550 B	DD/MS
AB40864	RVA-PRC01	12/21/2017	13:15	DD/MS	Ammonia by TNT		0.078	0.015	mg/L	HACH	TM
AB40864	RVA-PRC01	12/21/2017	13:15	DD/MS	E. Coli		58	1	MPN/100 mL	SM 20 9223 B	FAB
AB40864	RVA-PRC01	12/21/2017	13:15	DD/MS	Total Nitrogen		1.94	1	mg/L	TN HACH	TM
AB40864	RVA-PRC01	12/21/2017	13:15	DD/MS	pH		7.0		su	SM 20 4500 H+ B	DD/MS
AB40864	RVA-PRC01	12/21/2017	13:15	DD/MS	Total Suspended Solids		2	1	mg/L	SM18/2540 D	KMD
AB42161	RVA-PRC01	1/24/2018	13:45	DD/MS	pH		7.5		su	SM18/4500H+ B	DD/MS
AB42161	RVA-PRC01	1/24/2018	13:45	DD/MS	Temperature in °C		10.7		°C	SM 20 2550 B	DD/MS
AB42161	RVA-PRC01	1/24/2018	13:45	DD/MS	Ammonia by TNT		0.178	0.015	mg/L	HACH	CAA
AB42161	RVA-PRC01	1/24/2018	13:45	DD/MS	E. Coli		437	1	MPN/100 mL	SM 20 9223 B	TH
AB42161	RVA-PRC01	1/24/2018	13:45	DD/MS	Total Nitrogen		1.61	1	mg/L	TN HACH	CAA
AB42161	RVA-PRC01	1/24/2018	13:45	DD/MS	Total Suspended Solids		9	1	mg/L	SM18/2540 D	KMD
AB42160	RVA-PRC01	1/24/2018	13:20	DD/MS	pH		6.7		su	SM18/4500H+ B	DD/MS
AB42160	RVA-PRC01	1/24/2018	13:20	DD/MS	Temperature in °C		10.6		°C	SM 20 2550 B	DD/MS
AB42160	RVA-PRC01	1/24/2018	13:20	DD/MS	Ammonia by TNT		0.091	0.015	mg/L	HACH	CAA
AB42160	RVA-PRC01	1/24/2018	13:20	DD/MS	E. Coli		330	1	MPN/100 mL	SM 20 9223 B	TH
AB42160	RVA-PRC01	1/24/2018	13:20	DD/MS	Total Nitrogen		1.82	1	mg/L	TN HACH	CAA
AB42160	RVA-PRC01	1/24/2018	13:20	DD/MS	Total Suspended Solids		4	1	mg/L	SM18/2540 D	KMD
AB43277	RVA-PRC01	2/20/2018	11:25	DD/MS	pH		6.5		su	SM18/4500H+ B	KMD
AB43277	RVA-PRC01	2/20/2018	11:25	DD/MS	Temperature in °C		14.0		°C	SM 20 2550 B	KMD
AB43277	RVA-PRC01	2/20/2018	11:25	DD/MS	Ammonia by TNT		0.099	0.015	mg/L	HACH	MEM
AB43277	RVA-PRC01	2/20/2018	11:25	DD/MS	E. Coli		64	1	MPN/100 mL	SM 20 9223 B	FB
AB43277	RVA-PRC01	2/20/2018	11:25	DD/MS	Total Nitrogen		3.32	1	mg/L	TN HACH	MEM
AB43277	RVA-PRC01	2/20/2018	11:25	DD/MS	Dissolved Oxygen		9.2		mg/L	SM18/4500-O G	KMD
AB43277	RVA-PRC01	2/20/2018	11:25	DD/MS	Total Suspended Solids		3	1	mg/L	SM18/2540 D	KP
AB44877	RVA-PRC01	3/29/2018	13:25	DD/MS	pH		6.5		su	SM18/4500H+ B	DD/MS
AB44877	RVA-PRC01	3/29/2018	13:25	DD/MS	Temperature in °C		15.9		°C	SM 20 2550 B	DD/MS
AB44877	RVA-PRC01	3/29/2018	13:25	DD/MS	Ammonia by TNT		0.110	0.015	mg/L	HACH	TH
AB44877	RVA-PRC01	3/29/2018	13:25	DD/MS	E. Coli		No data	1	MPN/100 mL	SM 20 9223 B	TH
AB44877	RVA-PRC01	3/29/2018	13:25	DD/MS	Total Nitrogen		3.24	1	mg/L	TN HACH	TH
AB44877	RVA-PRC01	3/29/2018	13:25	DD/MS	Total Suspended Solids		3	1	mg/L	SM18/2540 D	KMD
AB44877	RVA-PRC01	3/29/2018	13:25	DD/MS	Dissolved Oxygen		9.2		mg/L	SM18/4500-O G	DD/MS
AB46138	RVA-PRC01	4/26/2018	12:40	DD/MS	pH		6.6		su	SM18/4500H+ B	DO/MS
AB46138	RVA-PRC01	4/26/2018	12:40	DD/MS	Temperature in °C		18.5		°C	SM 20 2550 B	DO/MS
AB46138	RVA-PRC01	4/26/2018	12:40	DD/MS	Ammonia by TNT		0.077	0.015	mg/L	HACH	CAA
AB46138	RVA-PRC01	4/26/2018	12:40	DD/MS	E. Coli		488	1	MPN/100 mL	SM 20 9223 B	KA
AB46138	RVA-PRC01	4/26/2018	12:40	DD/MS	Total Nitrogen		2.71	1	mg/L	TN HACH	CAA
AB46138	RVA-PRC01	4/26/2018	12:40	DD/MS	Total Suspended Solids		5	1	mg/L	SM18/2540 D	KP
AB46138	RVA-PRC01	4/26/2018	12:40	DD/MS	Dissolved Oxygen		8.2		mg/L	SM18/4500-O G	DO/MS
AB47701	RVA-PRC01	5/31/2018	10:55	DD/MS	Temperature in °C		21.1		°C	SM 20 2550 B	DD/MS
AB47701	RVA-PRC01	5/31/2018	10:55	DD/MS	Ammonia by TNT		0.129	0.015	mg/L	HACH	MEM
AB47701	RVA-PRC01	5/31/2018	10:55	DD/MS	E. Coli		>2420	1	MPN/100 mL	SM 20 9223 B	JNM
AB47701	RVA-PRC01	5/31/2018	10:55	DD/MS	Total Nitrogen		2.22	1	mg/L	TN HACH	MEM
AB47701	RVA-PRC01	5/31/2018	10:55	DD/MS	Total Suspended Solids		5	1	mg/L	SM18/2540 D	KP/DT
AB47701	RVA-PRC01	5/31/2018	10:55	DD/MS	Dissolved Oxygen		6.8		mg/L	SM18/4500-O G	DD/MS
AB47701	RVA-PRC01	5/31/2018	10:55	DD/MS	pH		6.52		su	SM 20 4500 H+ B	DD/MS

Princeton Creek (Continued)											
SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB49014	RVA-PRC01	6/28/2018	11:00	DD/MS	pH		6.55		su	SM18/4500H+ B	DD/MS
AB49014	RVA-PRC01	6/28/2018	11:00	DD/MS	Temperature in °C		23.2		°C	SM 20 2550 B	DD/MS
AB49014	RVA-PRC01	6/28/2018	11:00	DD/MS	Ammonia by TNT		0.071	0.015	mg/L	HACH	KAA
AB49014	RVA-PRC01	6/28/2018	11:00	DD/MS	E. Coli		727	1	MPN/100 mL	SM 20 9223 B	FAB
AB49014	RVA-PRC01	6/28/2018	11:00	DD/MS	Total Nitrogen		2.65	1	mg/L	TN HACH	KAA
AB49014	RVA-PRC01	6/28/2018	11:00	DD/MS	Total Suspended Solids		61	1	mg/L	SM18/2540 D	JNM
AB49014	RVA-PRC01	6/28/2018	11:00	DD/MS	Dissolved Oxygen		7.4		mg/L	SM18/4500-O G	DD/MS
AB37116	RVA-PRC03	10/3/2017	10:20	AC	E. Coli		361	1	MPN/100 mL	SM 20 9223 B	FG
AB37116	RVA-PRC03	10/3/2017	10:20	AC	Total Nitrogen		2.80	1	mg/L	TN HACH	KFS
AB37116	RVA-PRC03	10/3/2017	10:20	AC	Total Suspended Solids		18	1	mg/L	SM18/2540 D	JNM
AB39345	RVA-PRC03	11/15/2017	13:30	AC	Ammonia by TNT		0.022	0.015	mg/L	HACH	MM
AB39345	RVA-PRC03	11/15/2017	13:30	AC	E. Coli		>2420	1	MPN/100 mL	SM 20 9223 B	FB
AB39345	RVA-PRC03	11/15/2017	13:30	AC	Total Nitrogen		3.09	1	mg/L	TN HACH	MM
AB39345	RVA-PRC03	11/15/2017	13:30	AC	Total Suspended Solids		1	1	mg/L	SM18/2540 D	KFS
AB47703	RVA-PRC03	6/1/2018	09:30	AC	Ammonia by TNT		0.112	0.015	mg/L	HACH	MEM
AB47703	RVA-PRC03	6/1/2018	09:30	AC	E. Coli		2420	1	MPN/100 mL	SM 20 9223 B	KAA
AB47703	RVA-PRC03	6/1/2018	09:30	AC	Total Nitrogen		4.31	1	mg/L	TN HACH	MEM
AB47703	RVA-PRC03	6/1/2018	09:30	AC	Total Suspended Solids		3	1	mg/L	SM18/2540 D	KP
Reedy Creek											
SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB42968	RVA-RC3	2/12/2018	13:30	WGS/DR	pH		7.6		su	SM18/4500H+ B	WGS/DR
AB42968	RVA-RC3	2/12/2018	13:30	WGS/DR	Temperature in °C		11.1		°C	SM 20 2550 B	WGS/DR
AB42968	RVA-RC3	2/12/2018	13:30	WGS/DR	E. Coli		>2420	1	MPN/100 mL	SM 20 9223 B	MEM
AB42968	RVA-RC3	2/12/2018	13:30	WGS/DR	Dissolved Oxygen		10.3		mg/L	SM18/4500-O G	WGS/DR
AB42968	RVA-RC3	2/12/2018	13:30	WGS/DR	Total Suspended Solids		11	1	mg/L	SM18/2540 D	KP
AB42968	RVA-RC3	2/12/2018	13:30	WGS/DR	Total Nitrogen		0.856	1	mg/L	TN HACH	TM
AB42968	RVA-RC3	2/12/2018	13:30	WGS/DR	Ammonia by TNT		0.068	0.015	mg/L	HACH	MEM
AB44237	RVA-RC3	3/14/2018	12:15	WGS/DR	pH		7.5		su	SM18/4500H+ B	WGS/DR
AB44237	RVA-RC3	3/14/2018	12:15	WGS/DR	Temperature in °C		6.2		°C	SM 20 2550 B	WGS/DR
AB44237	RVA-RC3	3/14/2018	12:15	WGS/DR	E. Coli		613	1	MPN/100 mL	SM 20 9223 B	TM
AB44237	RVA-RC3	3/14/2018	12:15	WGS/DR	Total Nitrogen		0.970	1	mg/L	TN HACH	FB
AB44237	RVA-RC3	3/14/2018	12:15	WGS/DR	Total Suspended Solids		5	1	mg/L	SM18/2540 D	KP
AB44237	RVA-RC3	3/14/2018	12:15	WGS/DR	Dissolved Oxygen		13.0		mg/L	SM18/4500-O G	WGS/DR
AB45356	RVA-RC3	4/9/2018	12:50	WGS/DR	pH		8.0		su	SM18/4500H+ B	DR/WGS
AB45356	RVA-RC3	4/9/2018	12:50	WGS/DR	Temperature in °C		10.7		°C	SM 20 2550 B	DR/WGS
AB45356	RVA-RC3	4/9/2018	12:50	WGS/DR	Ammonia by TNT		0.067	0.015	mg/L	HACH	KAA
AB45356	RVA-RC3	4/9/2018	12:50	WGS/DR	E. Coli		1733	1	MPN/100 mL	SM 20 9223 B	FB
AB45356	RVA-RC3	4/9/2018	12:50	WGS/DR	Total Nitrogen		1.50	1	mg/L	TN HACH	KAA
AB45356	RVA-RC3	4/9/2018	12:50	WGS/DR	Total Suspended Solids		8	1	mg/L	SM18/2540 D	KP
AB45356	RVA-RC3	4/9/2018	12:50	WGS/DR	Dissolved Oxygen		11.6		mg/L	SM18/4500-O G	DR/WGS
AB47283	RVA-RC3	5/21/2018	12:15	WGS/DR	E. Coli		>2420	1	MPN/100 mL	SM 20 9223 B	KA
AB47283	RVA-RC3	5/21/2018	12:15	WGS/DR	Total Nitrogen		2.17	1	mg/L	TN HACH	FB
AB47283	RVA-RC3	5/21/2018	12:15	WGS/DR	Total Suspended Solids		6	1	mg/L	SM18/2540 D	KP/DT
AB47283	RVA-RC3	5/21/2018	12:15	WGS/DR	Dissolved Oxygen		8.2		mg/L	SM18/4500-O G	WES/DR
AB47283	RVA-RC3	5/21/2018	12:15	WGS/DR	pH		7.53		su	SM 20 4500 H+ B	WES/DR
AB47283	RVA-RC3	5/21/2018	12:15	WGS/DR	Temperature in °C		25.1		°C	SM 20 2550 B	WES/DR
AB48908	RVA-RC3	6/25/2018	15:45	WGS/DR	pH		7.70		su	SM18/4500H+ B	AR
AB48908	RVA-RC3	6/25/2018	15:45	WGS/DR	Temperature in °C		27.7		°C	SM 20 2550 B	AR
AB48908	RVA-RC3	6/25/2018	15:45	WGS/DR	Ammonia by TNT		0.052	0.015	mg/L	HACH	KAA
AB48908	RVA-RC3	6/25/2018	15:45	WGS/DR	E. Coli		>2420	1	MPN/100 mL	SM 20 9223 B	FB
AB48908	RVA-RC3	6/25/2018	15:45	WGS/DR	Total Nitrogen		1.56	1	mg/L	TN HACH	KAA
AB48908	RVA-RC3	6/25/2018	15:45	WGS/DR	Total Suspended Solids		6	1	mg/L	SM18/2540 D	DT
AB48908	RVA-RC3	6/25/2018	15:45	WGS/DR	Dissolved Oxygen		8.1		mg/L	SM18/4500-O G	AR

Reedy Creek (Continued)											
SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB42969	RVA-RC4	2/12/2018	14:15	WGS/DR	pH		7.0		su	SM18/4500H+ B	WGS/DR
AB42969	RVA-RC4	2/12/2018	14:15	WGS/DR	Temperature in °C		10.7		°C	SM 20 2550 B	WGS/DR
AB42969	RVA-RC4	2/12/2018	14:15	WGS/DR	E. Coli		1300	1	MPN/100 mL	SM 20 9223 B	MEM
AB42969	RVA-RC4	2/12/2018	14:15	WGS/DR	Total Suspended Solids		9	1	mg/L	SM18/2540 D	KP
AB42969	RVA-RC4	2/12/2018	14:15	WGS/DR	Dissolved Oxygen		8.1		mg/L	SM18/4500-O G	WGS/DR
AB42969	RVA-RC4	2/12/2018	14:15	WGS/DR	Total Nitrogen		0.812	1	mg/L	TN HACH	TM
AB42969	RVA-RC4	2/12/2018	14:15	WGS/DR	Ammonia by TNT		0.060	0.015	mg/L	HACH	MEM
AB44238	RVA-RC4	3/14/2018	13:00	WGS/DR	pH		7.2		su	SM18/4500H+ B	WGS/DR
AB44238	RVA-RC4	3/14/2018	13:00	WGS/DR	Temperature in °C		6.5		°C	SM 20 2550 B	WGS/DR
AB44238	RVA-RC4	3/14/2018	13:00	WGS/DR	E. Coli		86	1	MPN/100 mL	SM 20 9223 B	TM
AB44238	RVA-RC4	3/14/2018	13:00	WGS/DR	Total Nitrogen		1.70	1	mg/L	TN HACH	FB
AB44238	RVA-RC4	3/14/2018	13:00	WGS/DR	Total Suspended Solids		3	1	mg/L	SM18/2540 D	KP
AB44238	RVA-RC4	3/14/2018	13:00	WGS/DR	Dissolved Oxygen		10.7		mg/L	SM18/4500-O G	WGS/DR
AB45357	RVA-RC4	4/9/2018	13:20	WGS/DR	pH		7.4		su	SM18/4500H+ B	DR/WGS
AB45357	RVA-RC4	4/9/2018	13:20	WGS/DR	Temperature in °C		10.0		°C	SM 20 2550 B	DR/WGS
AB45357	RVA-RC4	4/9/2018	13:20	WGS/DR	Ammonia by TNT		0.127	0.015	mg/L	HACH	KAA
AB45357	RVA-RC4	4/9/2018	13:20	WGS/DR	E. Coli		816	1	MPN/100 mL	SM 20 9223 B	FB
AB45357	RVA-RC4	4/9/2018	13:20	WGS/DR	Total Nitrogen		2.19	1	mg/L	TN HACH	KAA
AB45357	RVA-RC4	4/9/2018	13:20	WGS/DR	Total Suspended Solids		7	1	mg/L	SM18/2540 D	KP
AB45357	RVA-RC4	4/9/2018	13:20	WGS/DR	Dissolved Oxygen		10.0		mg/L	SM18/4500-O G	DR/WGS
AB47284	RVA-RC4	5/21/2018	12:50	WGS/DR	Temperature in °C		22.6		°C	SM 20 2550 B	WES/DR
AB47284	RVA-RC4	5/21/2018	12:50	WGS/DR	E. Coli		345	1	MPN/100 mL	SM 20 9223 B	KA
AB47284	RVA-RC4	5/21/2018	12:50	WGS/DR	Total Nitrogen		1.59	1	mg/L	TN HACH	FB
AB47284	RVA-RC4	5/21/2018	12:50	WGS/DR	Total Suspended Solids		7	1	mg/L	SM18/2540 D	KP/DT
AB47284	RVA-RC4	5/21/2018	12:50	WGS/DR	Dissolved Oxygen		5.9		mg/L	SM18/4500-O G	WES/DR
AB47284	RVA-RC4	5/21/2018	12:50	WGS/DR	pH		6.89		su	SM 20 4500 H+ B	WES/DR
AB48909	RVA-RC4	6/25/2018	16:40	WGS/DR	pH		6.88		su	SM18/4500H+ B	AR
AB48909	RVA-RC4	6/25/2018	16:40	WGS/DR	Temperature in °C		25.0		°C	SM 20 2550 B	AR
AB48909	RVA-RC4	6/25/2018	16:40	WGS/DR	Ammonia by TNT		0.080	0.015	mg/L	HACH	KAA
AB48909	RVA-RC4	6/25/2018	16:40	WGS/DR	E. Coli		816	1	MPN/100 mL	SM 20 9223 B	FB
AB48909	RVA-RC4	6/25/2018	16:40	WGS/DR	Total Nitrogen		1.63	1	mg/L	TN HACH	KAA
AB48909	RVA-RC4	6/25/2018	16:40	WGS/DR	Total Suspended Solids		7	1	mg/L	SM18/2540 D	DT
AB48909	RVA-RC4	6/25/2018	16:40	WGS/DR	Dissolved Oxygen		4.8		mg/L	SM18/4500-O G	AR
Upham Brook											
SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB34133	RVA-UB2	7/31/2017	14:30	DD/MS	Ammonia by TNT		0.141	0.015	mg/L	HACH	TH
AB34133	RVA-UB2	7/31/2017	14:30	DD/MS	E. Coli		<1	1	MPN/100 mL	SM 20 9223 B	KAA
AB34133	RVA-UB2	7/31/2017	14:30	DD/MS	Total Nitrogen		1.35	1	mg/L	TN HACH	TH
AB34133	RVA-UB2	7/31/2017	14:30	DD/MS	Total Suspended Solids		4	1	mg/L	SM18/2540 D	KD
AB34133	RVA-UB2	7/31/2017	14:30	DD/MS	pH		7.1		su	SM 20 4500 H+ B	DD/MS
AB35435	RVA-UB2	9/1/2017	12:15	DD	Ammonia by TNT		0.117	0.015	mg/L	HACH	TH
AB35435	RVA-UB2	9/1/2017	12:15	DD	E. Coli		9	1	MPN/100 mL	SM 20 9223 B	FB
AB35435	RVA-UB2	9/1/2017	12:15	DD	Total Nitrogen		1.63	1	mg/L	TN HACH	TH
AB35435	RVA-UB2	9/1/2017	12:15	DD	pH		7.0		su	SM 20 4500 H+ B	DD
AB35435	RVA-UB2	9/1/2017	12:15	DD	Total Suspended Solids		3	1	mg/L	SM18/2540 D	JNM
AB39633	RVA-UB2	11/21/2017	14:55	DD	Ammonia by TNT		0.140	0.015	mg/L	HACH	TM
AB39633	RVA-UB2	11/21/2017	14:55	DD	E. Coli		19	1	MPN/100 mL	SM 20 9223 B	FB
AB39633	RVA-UB2	11/21/2017	14:55	DD	Total Nitrogen		2.19	1	mg/L	TN HACH	TM
AB39633	RVA-UB2	11/21/2017	14:55	DD	Total Suspended Solids		2	1	mg/L	SM18/2540 D	KFS
AB40865	RVA-UB2	12/21/2017	13:50	DD/MS	Temperature in °C		8.9		°C	SM 20 2550 B	DD/MS
AB40865	RVA-UB2	12/21/2017	13:50	DD/MS	Ammonia by TNT		0.145	0.015	mg/L	HACH	TM
AB40865	RVA-UB2	12/21/2017	13:50	DD/MS	E. Coli		9	1	MPN/100 mL	SM 20 9223 B	FAB
AB40865	RVA-UB2	12/21/2017	13:50	DD/MS	Total Nitrogen		2.03	1	mg/L	TN HACH	TM
AB40865	RVA-UB2	12/21/2017	13:50	DD/MS	pH		7.8		su	SM 20 4500 H+ B	DD/MS
AB40865	RVA-UB2	12/21/2017	13:50	DD/MS	Total Suspended Solids		3	1	mg/L	SM18/2540 D	KMD
AB42061	RVA-UB2	1/22/2018	13:00	DD/MS	Temperature in °C		7.6		°C	SM 20 2550 B	AC
AB42061	RVA-UB2	1/22/2018	13:00	DD/MS	Ammonia by TNT		0.099	0.015	mg/L	HACH	KAA

Upham Brook (Continued)

SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB42061	RVA-UB2	1/22/2018	13:00	DD/MS	E. Coli		26	1	MPN/100 mL	SM 20 9223 B	TH
AB42061	RVA-UB2	1/22/2018	13:00	DD/MS	Total Nitrogen		1.28	1	mg/L	TN HACH	CAA
AB42061	RVA-UB2	1/22/2018	13:00	DD/MS	pH		8.0		su	SM18/4500H+ B	AC
AB42061	RVA-UB2	1/22/2018	13:00	DD/MS	Total Suspended Solids		4	1	mg/L	SM18/2540 D	JNM
AB43278	RVA-UB2	2/20/2018	11:55	DD/MS	pH		7.1		su	SM18/4500H+ B	KMD
AB43278	RVA-UB2	2/20/2018	11:55	DD/MS	Temperature in °C		12.0		°C	SM 20 2550 B	KMD
AB43278	RVA-UB2	2/20/2018	11:55	DD/MS	Ammonia by TNT		0.164	0.015	mg/L	HACH	MEM
AB43278	RVA-UB2	2/20/2018	11:55	DD/MS	E. Coli		123	1	MPN/100 mL	SM 20 9223 B	FB
AB43278	RVA-UB2	2/20/2018	11:55	DD/MS	Total Nitrogen		3.70	1	mg/L	TN HACH	MEM
AB43278	RVA-UB2	2/20/2018	11:55	DD/MS	Total Suspended Solids		6	1	mg/L	SM18/2540 D	KP
AB43278	RVA-UB2	2/20/2018	11:55	DD/MS	Dissolved Oxygen		9.4		mg/L	SM18/4500-O G	KMD
AB44878	RVA-UB2	3/29/2018	13:55	DD/MS	pH		7.7		su	SM18/4500H+ B	DD/MS
AB44878	RVA-UB2	3/29/2018	13:55	DD/MS	Temperature in °C		15.7		°C	SM 20 2550 B	DD/MS
AB44878	RVA-UB2	3/29/2018	13:55	DD/MS	Ammonia by TNT		0.119	0.015	mg/L	HACH	TH
AB44878	RVA-UB2	3/29/2018	13:55	DD/MS	E. Coli		No data	1	MPN/100 mL	SM 20 9223 B	TH
AB44878	RVA-UB2	3/29/2018	13:55	DD/MS	Total Nitrogen		2.29	1	mg/L	TN HACH	TH
AB44878	RVA-UB2	3/29/2018	13:55	DD/MS	Total Suspended Solids		3	1	mg/L	SM18/2540 D	KMD
AB44878	RVA-UB2	3/29/2018	13:55	DD/MS	Dissolved Oxygen		9.0		mg/L	SM18/4500-O G	DD/MS
AB46139	RVA-UB2	4/26/2018	13:05	DD/MS	pH		7.1		su	SM18/4500H+ B	DD/MS
AB46139	RVA-UB2	4/26/2018	13:05	DD/MS	Temperature in °C		18.4		°C	SM 20 2550 B	DO/MS
AB46139	RVA-UB2	4/26/2018	13:05	DD/MS	Ammonia by TNT		0.168	0.015	mg/L	HACH	CAA
AB46139	RVA-UB2	4/26/2018	13:05	DD/MS	E. Coli		194	1	MPN/100 mL	SM 20 9223 B	KA
AB46139	RVA-UB2	4/26/2018	13:05	DD/MS	Total Nitrogen		1.86	1	mg/L	TN HACH	CAA
AB46139	RVA-UB2	4/26/2018	13:05	DD/MS	Total Suspended Solids		7	1	mg/L	SM18/2540 D	KP
AB46139	RVA-UB2	4/26/2018	13:05	DD/MS	Dissolved Oxygen		7.4		mg/L	SM18/4500-O G	DO/MS
AB47702	RVA-UB2	5/31/2018	11:30	DD/MS	Temperature in °C		24.1		°C	SM 20 2550 B	DD/MS
AB47702	RVA-UB2	5/31/2018	11:30	DD/MS	Ammonia by TNT		0.261	0.015	mg/L	HACH	MEM
AB47702	RVA-UB2	5/31/2018	11:30	DD/MS	E. Coli		222	1	MPN/100 mL	SM 20 9223 B	JNM
AB47702	RVA-UB2	5/31/2018	11:30	DD/MS	Total Nitrogen		3.20	1	mg/L	TN HACH	MEM
AB47702	RVA-UB2	5/31/2018	11:30	DD/MS	Total Suspended Solids		5	1	mg/L	SM18/2540 D	KP/DT
AB47702	RVA-UB2	5/31/2018	11:30	DD/MS	Dissolved Oxygen		7.4		mg/L	SM18/4500-O G	DD/MS
AB47702	RVA-UB2	5/31/2018	11:30	DD/MS	pH		7.22		su	SM 20 4500 H+ B	DD/MS
AB49015	RVA-UB2	6/28/2018	11:30	DD/MS	pH		7.24		su	SM18/4500H+ B	DD/MS
AB49015	RVA-UB2	6/28/2018	11:30	DD/MS	Temperature in °C		25.7		°C	SM 20 2550 B	DD/MS
AB49015	RVA-UB2	6/28/2018	11:30	DD/MS	Ammonia by TNT		0.194	0.015	mg/L	HACH	CAA
AB49015	RVA-UB2	6/28/2018	11:30	DD/MS	E. Coli		122	1	MPN/100 mL	SM 20 9223 B	FAB
AB49015	RVA-UB2	6/28/2018	11:30	DD/MS	Total Nitrogen		2.83	1	mg/L	TN HACH	CAA
AB49015	RVA-UB2	6/28/2018	11:30	DD/MS	Total Suspended Solids		4	1	mg/L	SM18/2540 D	JNM
AB49015	RVA-UB2	6/28/2018	11:30	DD/MS	Dissolved Oxygen		6.6		mg/L	SM18/4500-O G	DD/MS

VCU-DPU Partnership for Water Quality Monitoring

— Annual Meeting to discuss
2018-19 Work Plan —

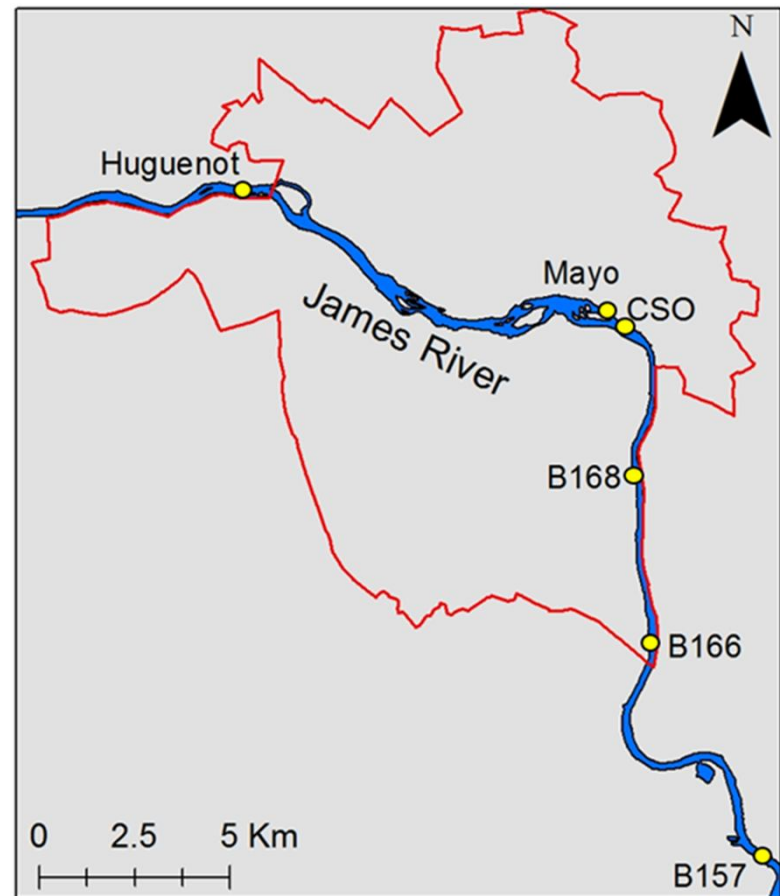
Current Monitoring Plan – James River

Six sampling locations: Huguenot, Mayo's, CSO, B168, B166, B157

~weekly monitoring

Parameters:

- Water quality (T, pH, DO, Cond)
- Nutrients (TN, TP, NO₃, NH₄, PO₄)
- Sediment (TSS, Turbidity)
- Bacteria (E coli)

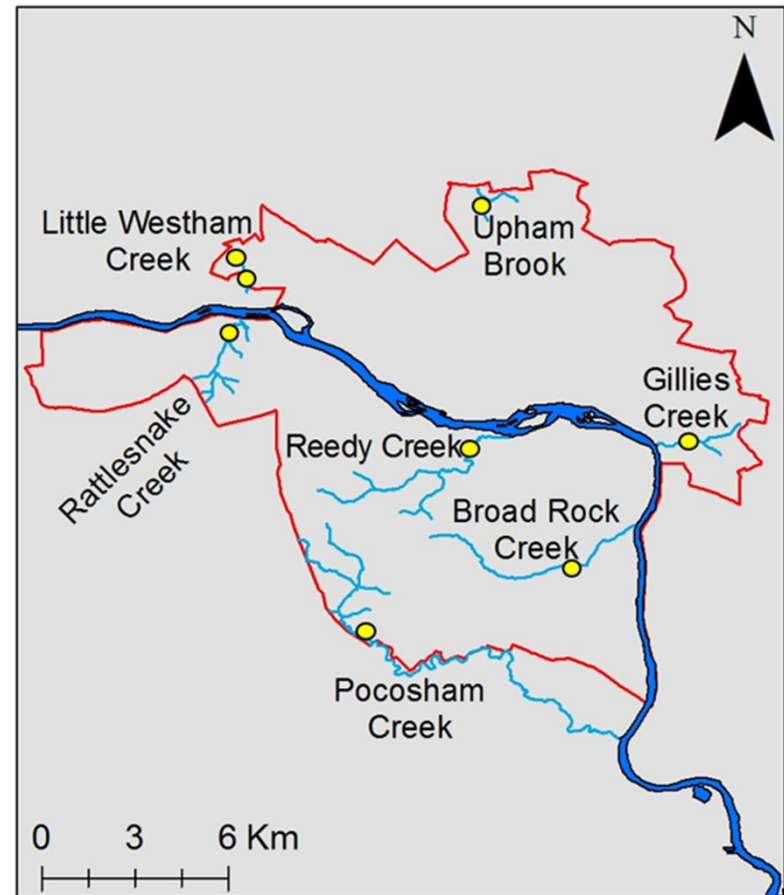


Current Monitoring Plan – Urban Streams

Seven locations: Broad Rock, Gillies, Pocosham, Rattlesnake, Reedy, Upham, Westham.

Parameters (twice monthly):

- Discharge
- Water quality (T, pH, DO, Cond)
- Nutrients (TN, TP, NO₃, NH₄, PO₄)
- Sediment (TSS, Turbidity)
- Bacteria (E coli)
- BMI (twice per year)

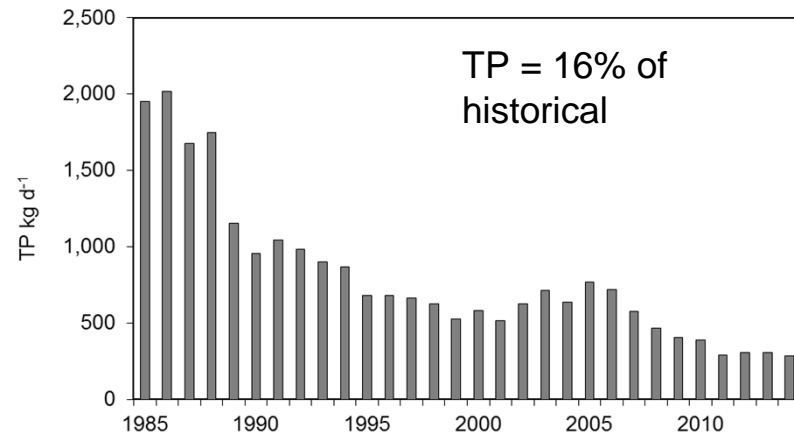
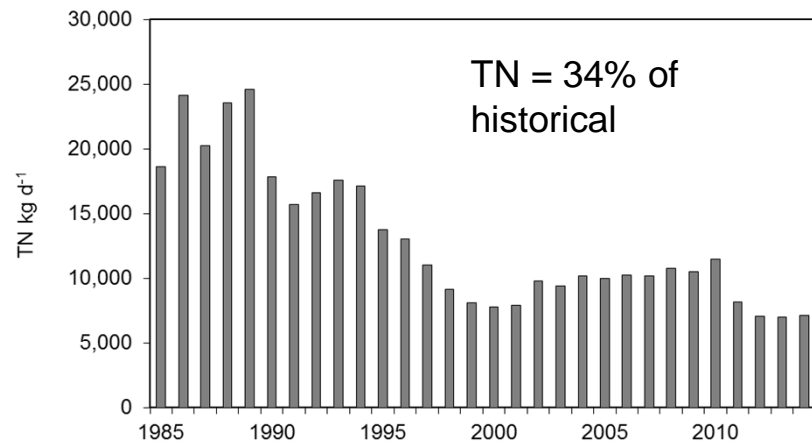


Aligning Monitoring with Management

Location	Action	Response	Data Needs
James lower TF*	WWTP N&P reductions	Algal bloom abatement	Nutrients, CHLa, HABs
James upper TF	WWTP wet weather capacity	Reduced bacteria & nutrients	Bacteria, nutrients
Urban streams: Pocosham, Rattlesnake, L. Westham	Restoration	Reduced sediment, bacteria & nutrients. Improved BMI.	Sediment, bacteria, nutrients, BMI
Urban streams: Gillies, Reedy, Broad Rock, Upham	Future implementation of BMPs, etc.	Reduced sediment, bacteria & nutrients. Improved BMI.	Sediment, bacteria, nutrients, BMI

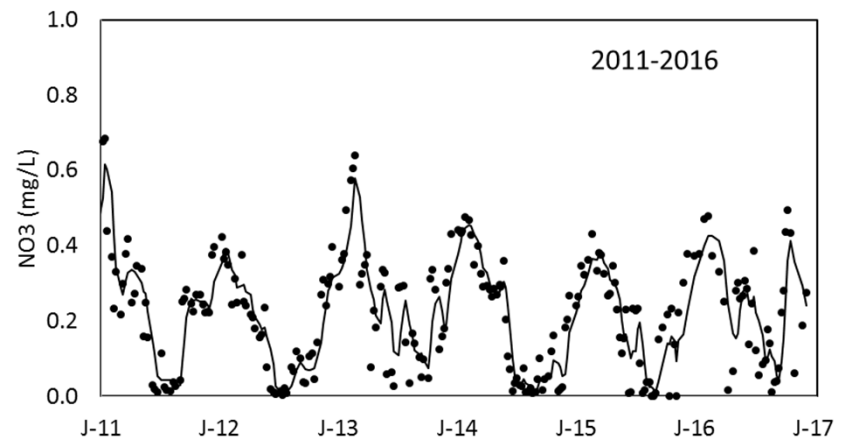
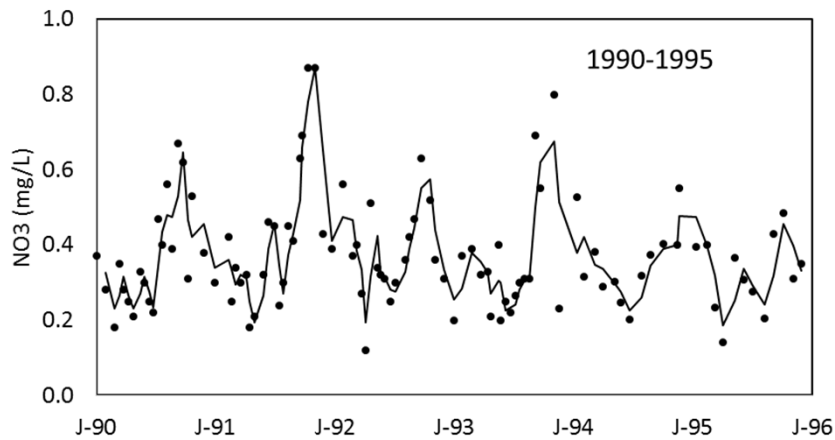
*data collected in collaboration with DPU though Nov-2015.

James: WWTP upgrades



Combined point source inputs from municipal and industrial sources to the tidal freshwater segments of the James River 1985-2014 (from Bukaveckas et al. 2018 *ECSS*).

WWTP upgrades and estuarine nutrients

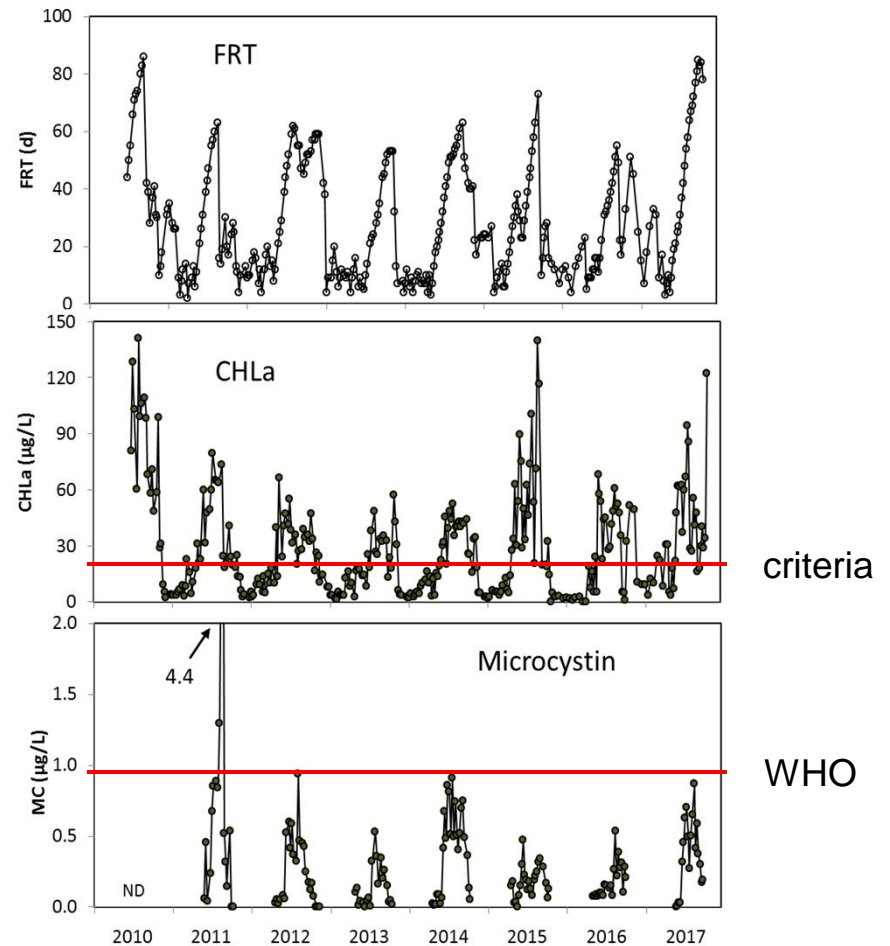


Time series of nitrate concentrations in the James River near Hopewell, VA. Monthly data (1990-1995) are from CBP; weekly data (2011-2016) are from VCU.

James: algal blooms

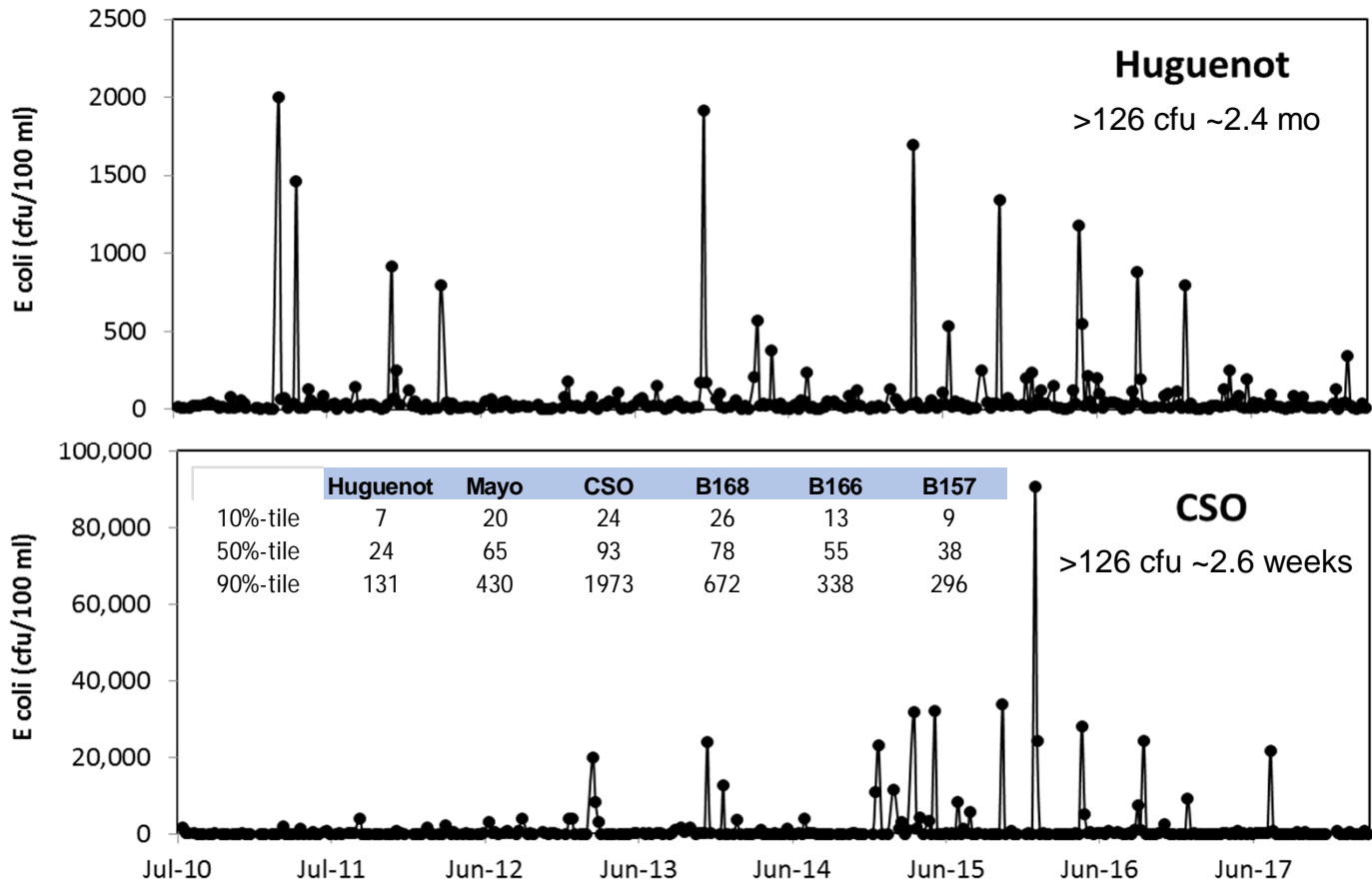
Expected reduction in peak CHLa values with decreasing nutrient availability.

Time series of freshwater replacement time (FRT), chlorophyll-a (CHLa) and microcystin in the tidal freshwater James River near Hopewell, VA (from Bukaveckas et al. 2018 *Harmful Algae*).

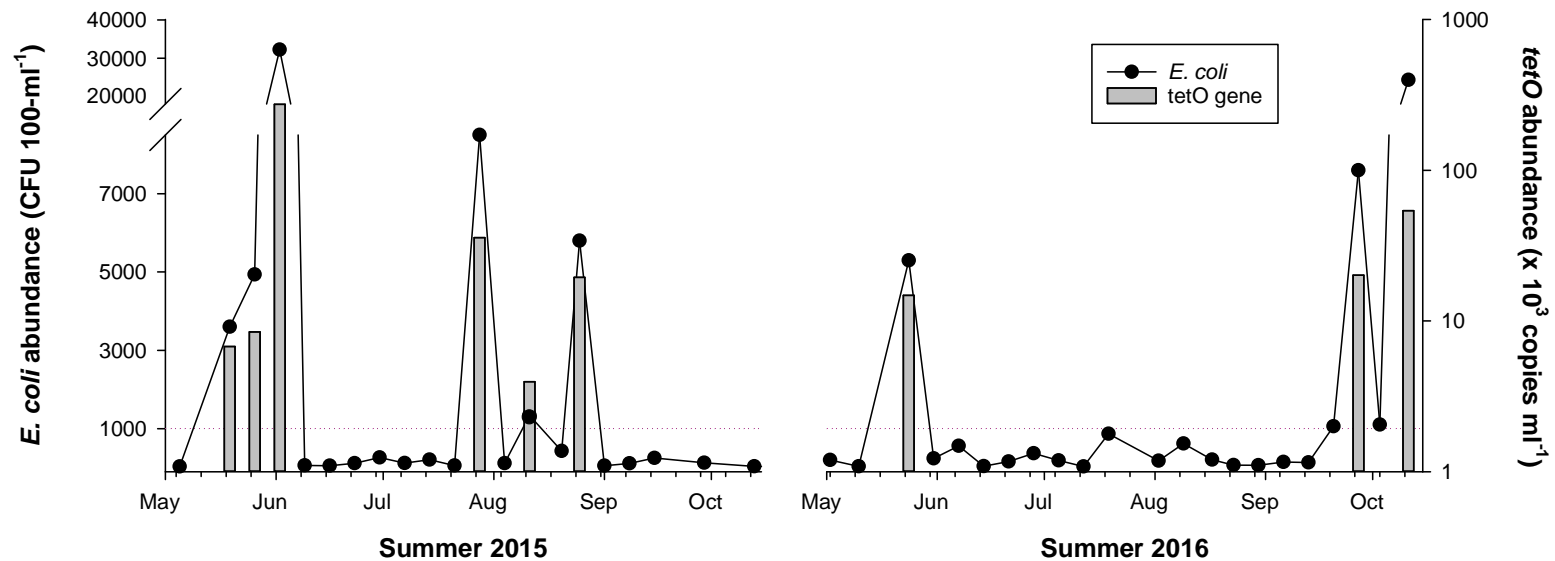


James: CSO

Expected reduction in frequency and magnitude of events with greater treatment capacity.

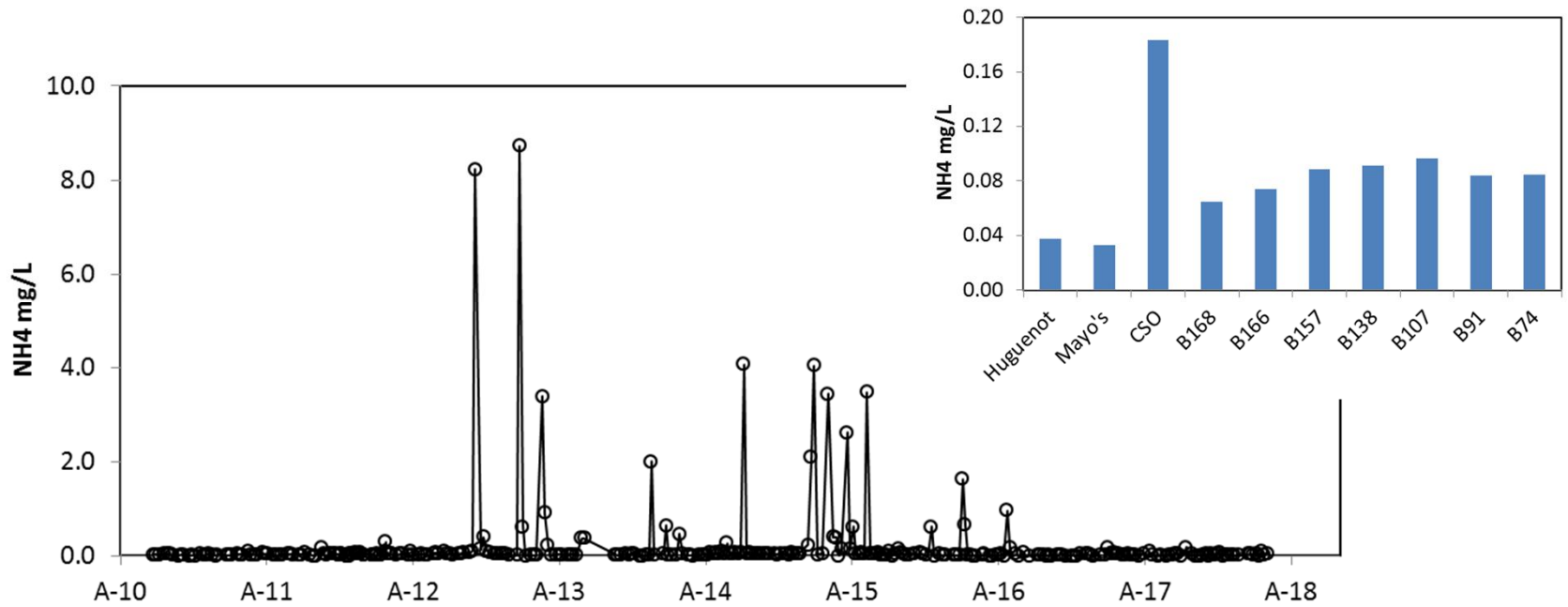


CSO events & Antibiotic resistant bacteria



Quantitative PCR was used to determine the abundance of the tetracycline resistance gene *tetO* in river water samples collected near the CSO site (n=44). The *tetO* gene was only detected when *E. coli* abundance exceeded 1000 CFU 100-mi⁻¹. *tetO* was not detected in any of the samples collected at the Huguenot site over the same period.

James CSO: ammonia



Assessment of Water Quality in Urban Streams

Data Available

Broad Rock, Gillies, Reedy, Upham	Jan-2016 to Apr-2018	N = 58
Pocosham, Rattlesnake	Sep-2017 to Apr-2018	N = 19
L Westham	Mar-2018 to Apr-2018	N = 4

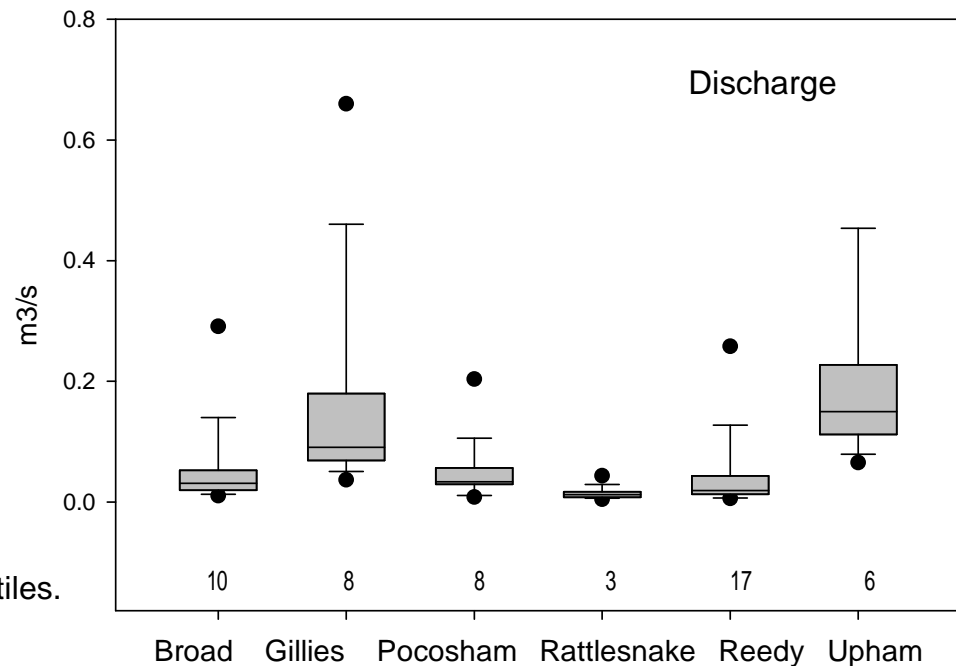


Photo of Broad Rock Creek

Urban Streams: Discharge

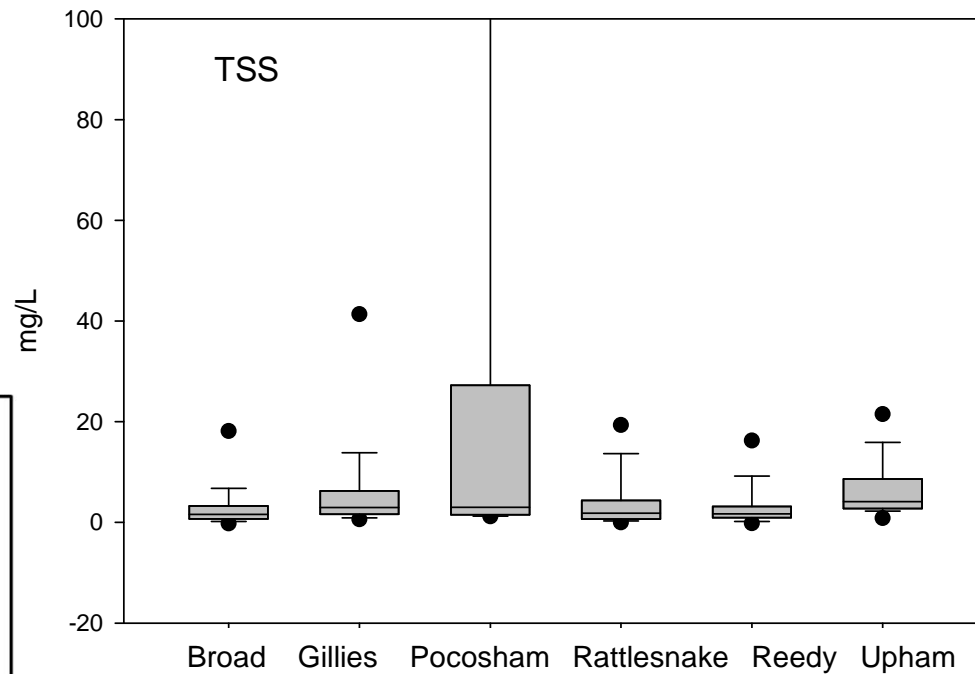
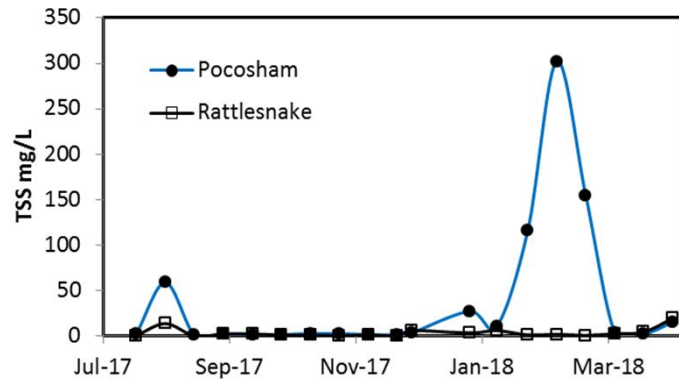
Highest discharge measured at Gillies and Upham (medians = 100-150 L/s); lower discharge at other sites (medians = 10-30 L/s). Greatest flashiness observed at Reedy (17); low flashiness at Rattlesnake and Upham (3-6). Note Upham has upstream impoundment.

Flashiness values are ratios of 90th to 10th percentiles.

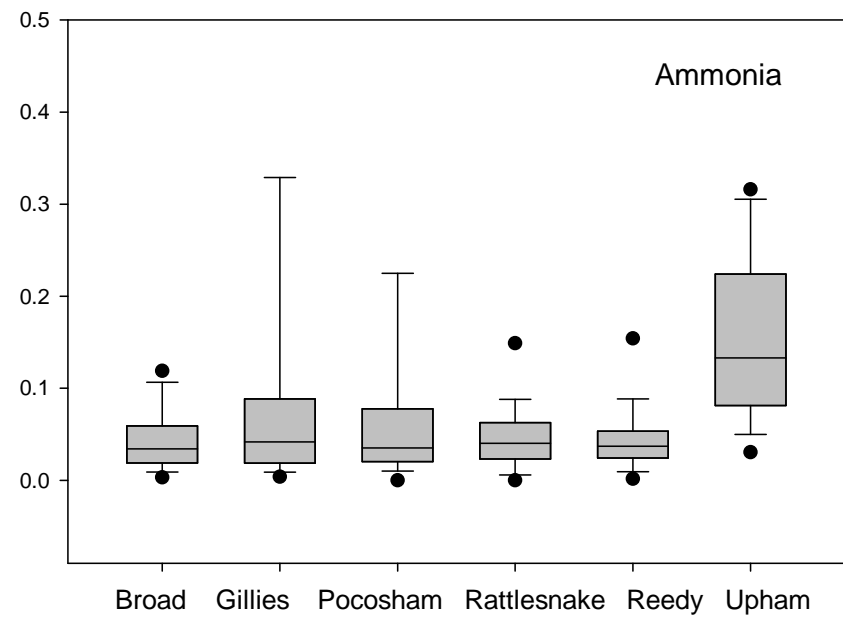
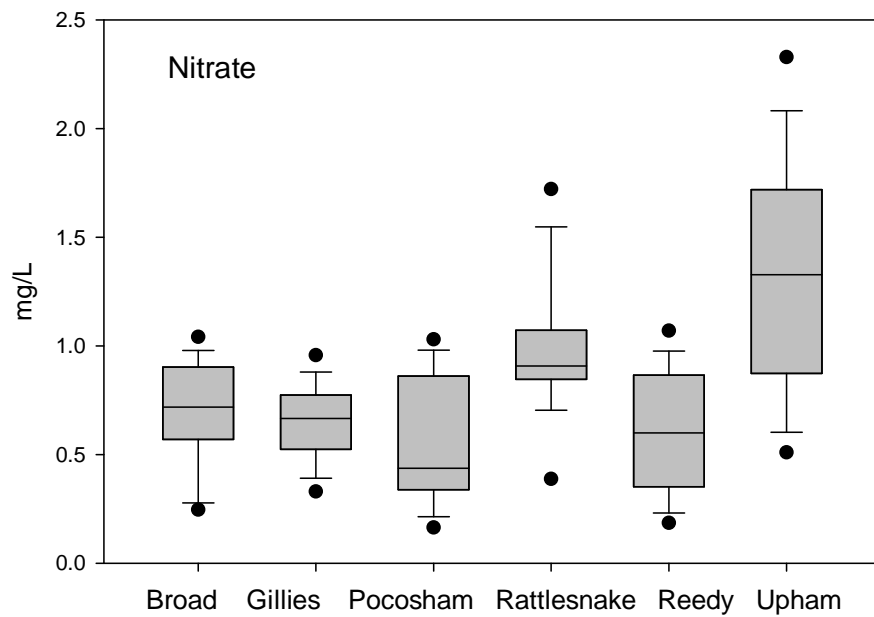


Urban Streams: suspended sediments

Suspended sediment concentrations generally low and similar across sites, except for construction phase at Pocosham



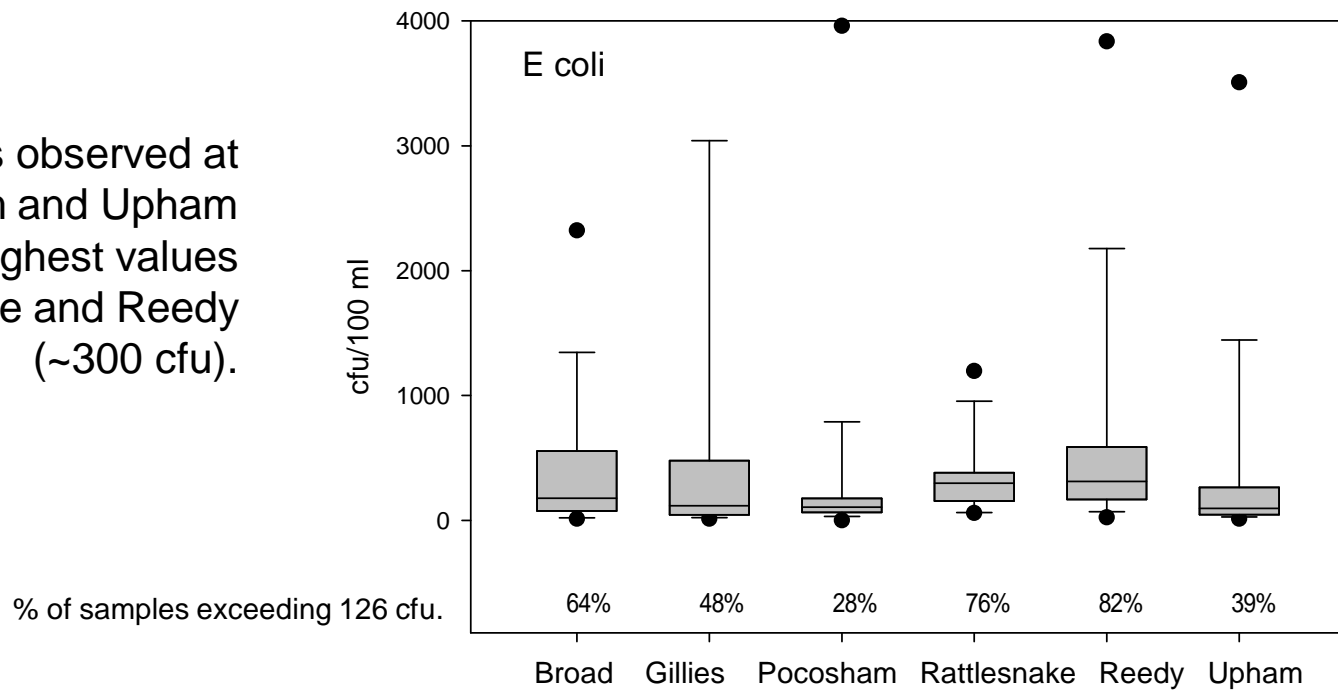
Urban Streams: nitrogen



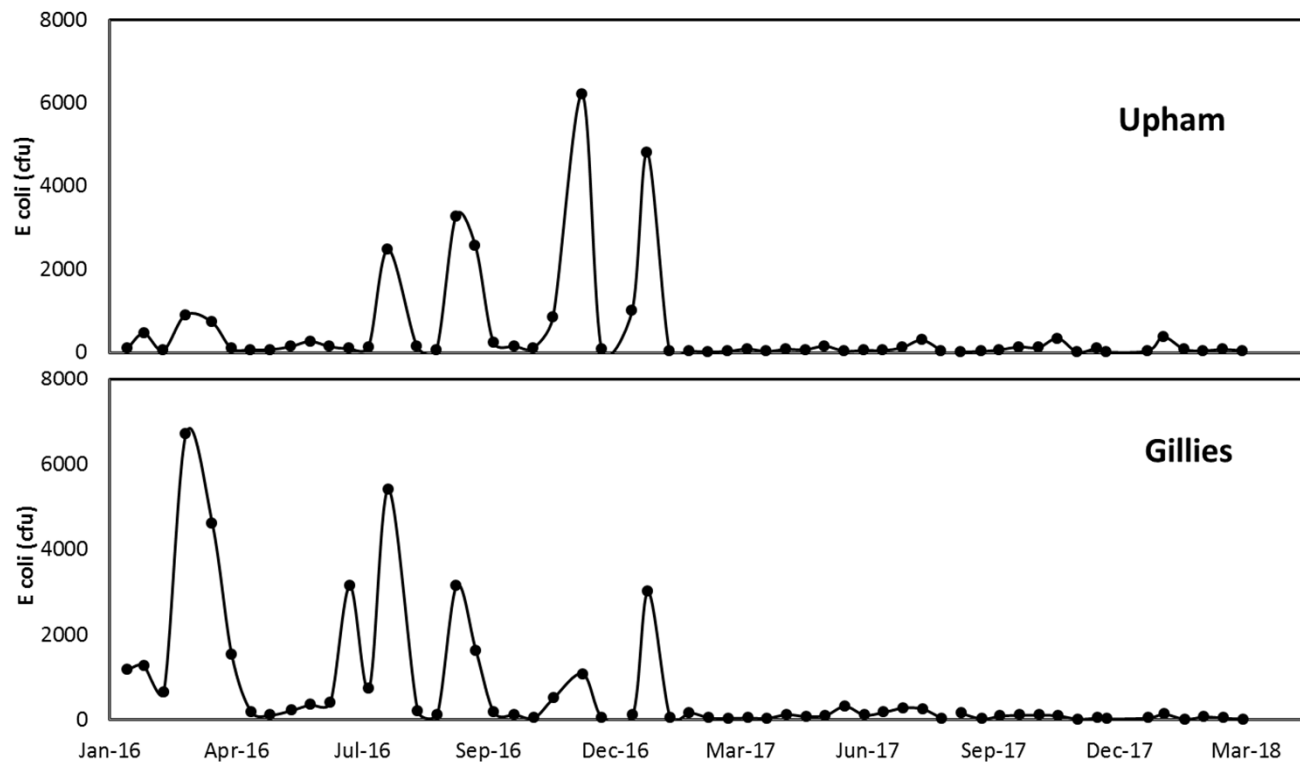
Elevated NO_3 and NH_4 at Upham; elevated NO_3 at Rattlesnake.

Urban Streams: E coli

Lowest values observed at Pocosham and Upham (~100 cfu); highest values at Rattlesnake and Reedy (~300 cfu).



Urban Streams: E coli

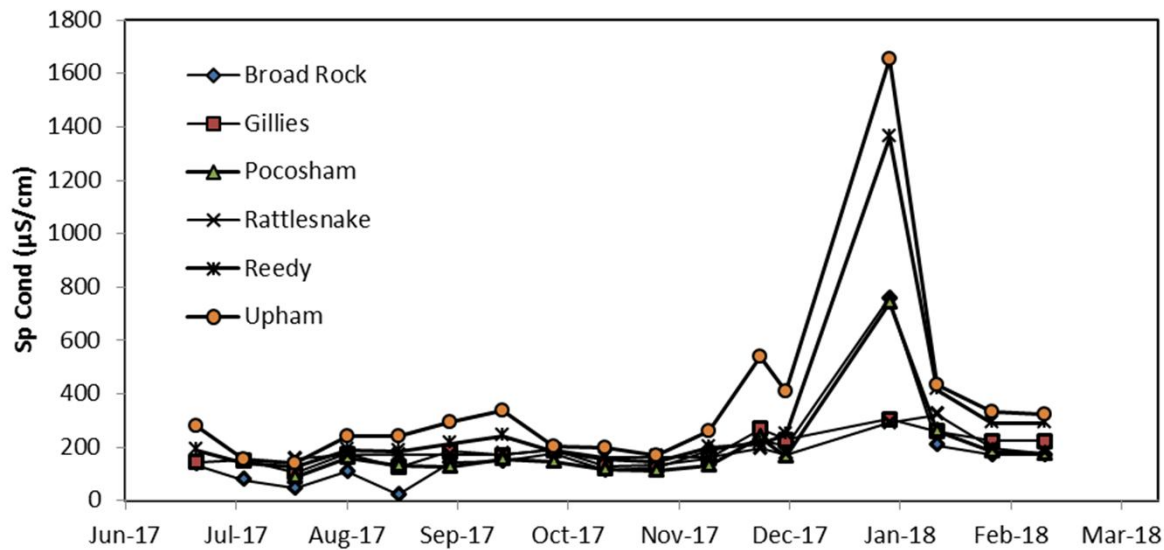


E coli declines at Gillies & Upham during 2017.

Median E coli (cfu)

	2016	2017
Upham	152	50
Gillies	579	70

Urban Streams: Road salt



Event on Jan-17, 2018 captured from conductivity data: greatest effect at Upham & Reedy, little response at Gillies & Rattlesnake.

Urban Sites where highest values were observed

	Discharge	Sediment	Nitrogen	E coli	Salt
Broad Rock					
Gillies					
Pocosham		√*			
Rattlesnake			√	√	
Reedy	√			√	√
Upham			√		√

*construction phase of restoration

APPENDIX A3

VCU Monitoring for City of Richmond

2018

James River

Locations:

Huguenot Bridge

Mayo Bridge

CSO #006,

B168,

B166,

B157

Chemical/Physical tests: Three weeks per month

(DEQ measures 4th week)

pH, DO, temp, Sp. Cond, TSS, turbidity, E. coli, Ammonia, N/N, Total N, orthophosphate, Total Phosphorus

Richmond Tributaries

Locations:

Broad Rock Creek

Gillie's Creek

Pocosham Creek

Rattlesnake Creek

Reedy Creek

Upham Brook

Chemical/Physical tests: Twice per month

pH, DO, temp, Sp. Cond, TSS, turbidity, E. coli, Ammonia, N/N, Total N, orthophosphate, Total Phosphorus, discharge

Benthic Macro-invertebrates: twice per year (spring and fall)

APPENDIX B

Outreach Projects 2018-2019

	Task & Scope	Goal	Target Audience	Estimated # of impressions
Print Media	Billboards * Focus on Hispanic neighborhoods. Mayo Bridge, Hamilton/Broad; Cowardin/Semmes, Hull Street Rd, Feedmore, Kickers back wall, Digital board; 21st St	Inform people about caring for the river and keeping storm drains pollution-free	RVA residents with an emphasis on Hispanic and low-income neighborhoods Est. 200,000 impressions over two months / unique views = 40,000	200,000
	Utility Bill Insert ** Send out newsletter to all Stormwater utility customers	Raise awareness about stormwater efforts, promote new projects, provide directive on stormwater efforts	Utility Customer households	113,000
Radio/Web	Public Service Announcements Run public service announcements on radio & TV	Raise awareness of storm drains, pet waste, nutrients	Richmond citizens	464k for radio 243k for TV
	Social Media Increase social media messages through twitter and Facebook	increase stormwater messaging and get attention to cleanup and projects	City of Richmond social media users	
Drain Marking	Storm Drain Art Contest 2018 - Local artists paint their work on storm drains in Richmond - Arrange a press visit for Mayor to Grace St storm drains; create a map or kit with talking points; add RVAH2O logo to 5 drains plus Tredegar drains	Inform RVA residents about the importance of "only rain in the drain" and raise awareness of RVAH2O	City of Richmond residents 200,000 impressions/year: online, 1,500 views; on foot, approximately 4,000 people monthly; in the news, approx. 15,000 per news article	200k 1,500 online 4k/mo pedestrians 15k newspaper
	Storm Drain Marking (stencil & medallions) Provide maps, drain markers, and instructions to volunteers for them to mark drains - Design and create stencils that members of the community can paint on storm drains	Raise awareness of storm drains and their function; to advocate for less trash in storm drains	City of Richmond residents, Neighborhood residents, Scouts, clubs, science teachers, Summer camps, VCU students Direct contact with community groups, scouts, neighborhoods, on foot: 5,500+/year	5k/year
Schools	RPS Rain Barrel Project - Students paint 28 barrels with an environmental design and message then the public votes on the Best Environmental Message and Most Creative - Install 10 rain barrels	Stormwater education and 100% participation Install 10 barrels and have 10 credit applications submitted Citizen participation, stormwater education,	Richmond Elementary 5th grade science classes City of Richmond residents	3500
	RPS/JRP Educational Projects - RPS Stormwater education - Drain marking project and on-site education sessions at the River	Provide Stormwater education for each middle school and high school	RPS	3500
	Civic Associations/Neighborhood Meetings Participate in meetings all over the city and conduct a stormwater presentation at each meeting	Raise public awareness of stormwater pollution	City of Richmond residents	700

Civic Group	Girl Scouts - Create an environmental badge for stream clean participation	Stormwater education and 100% participation	Girls Scout troops in Richmond City	100
	Community Events Attend 6 community events: - Wags & Wine, - Richmond Dog Vestival - Earth Day, - Pfizer Earth Day, - Senior Day,	Get involved in community and target audiences	City of Richmond residents	2,500k
	Household Hazardous Waste Collection Event 2 events (one North and one South of the James) garnering public participation in removing hazardous waste from the environment, partnering with Clean City Comm	Collect at least ten 25-gallon drums of HHW	City of Richmond residents	500
	Adopt-A-Stream Program Start a new program aimed at citizens volunteering to perform stream cleanups on streams in their neighborhoods.	Community Engagement/ Stormwater Awareness	City of Richmond residents	200
	Community Clean-Up Collect trash at events by sponsoring or participating in a community clean-up	Community Engagement/ Stormwater Awareness	Targeted Neighborhoods	50
	Spanish Community Outreach Educate Spanish speakers and minorities about Stormwater	Community Engagement/ Stormwater Awareness	RVA Hispanic and low-income neighborhoods	200
	Participate in Watershed Organizations James River Advisory Council, Middle James Roundtable, JRA - Become involved in environmental activities as participant & host	Serve the organizations and build partnerships	City of Richmond residents	varies
Pet Waste	Pet Waste Program - Partner with Richmond Animal Care to provide a bag of dog waste disposal items to every new dog owner; - Provide 200,000 dog waste bags to pet waste stations in James River Park System - Place 500 pet waste signs throughout the city - Place signs at RPS	Reduce bacteria from dog waste in our waterways Raise awareness of bacteria from pet waste and harmful effects to our waterways; reduce pet waste in high-volume areas	New COR dog owners	5,000
Nutrient Mgmt.	Nutrient Management Education - Social Media Tweet messages about times to fertilize - Nutrient Management Banners at city nurseries	Educate citizens about nutrient management	Home owners	15
Internal Ed.	New Employees Education - Attend new employee orientation 26 times a year, employees receive flyers and literature about stormwater and a stormwater presentation is presented	Educate new employees and customer service representatives	New City and Customer Service Representatives	300

APPENDIX C1

Outfall ID:	Date:	Creek:	Rain Event Past 48 hours?	Flow Present?	IDDE Potential:	Sample Collected?	Additional Notes:
AB-7660	10/6/2017	Albro Creek	No	No	Unlikely	No	Appears to Function as Designed
AB-7664	10/6/2017	Albro Creek	No	No	Unlikely	No	N/A
AB-020	10/12/2017	Albro Creek	Yes	No	Unlikely	No	Outfall Re-tagged
AB-021	10/12/2017	Albro Creek	Yes	Yes	Potential	No	GW I/I Indications, Outfall Re-tagged
AB-0449	10/12/2017	Albro Creek	Yes	No	Unlikely	No	N/A
AB-4972	10/27/2017	Albro Creek	No	Yes	Potential	No	Accumulated litter, debris at pipe entrance, maintenance required.
AB-A01	10/27/2017	Albro Creek	No	Yes	Unlikely	No	N/A
AB-7756	10/27/2017	Albro Creek	No	Yes	Unlikely	No	Appears to Function as Designed
AB-6726	10/30/2017	Albro Creek	No	No	Unlikely	No	N/A
AMD-4130	12/1/2017	Almond Creek	No	Yes	Unlikely	Yes	N/A
AMD-3051	12/1/2017	Almond Creek	No	Yes	Potential	Yes	Appears to Function as Designed
AMD-7385	12/5/2017	Almond Creek	No	No	Unlikely	No	Debris (Used tires, empty saddle-mounted fuel tank) were observed in the EDD
AMD-7380	12/5/2017	Almond Creek	No	Yes	Unlikely	Yes	Appears to Function as Designed
AMD-4140	1/3/2018	Almond Creek	No	No	Unlikely	No	Erosion Associated With Outfall
AL-003	10/6/2017	Along Creek	No	No	Unlikely	No	Erosion Associated With Outfall, Stone channel protection along the bottom of the channel
AL-7644	10/9/2017	Along Creek	Yes	No	Unlikely	No	

Outfall ID:	Date:	Creek:	Rain Event Past 48 hours?	Flow Present?	IDDE Potential:	Sample Collected?	Additional Notes:
AL-7649	10/9/2017	Along Creek	Yes	Yes	Unlikely	No	Appears to Function as Designed
BRC-6821	11/20/2017	Broad Rock Creek	No	Yes	Unlikely	Yes	Appears to Function as Designed
BRC-6823	11/20/2017	Broad Rock Creek	No	Yes	Obvious	Yes	Appears to Function as Designed
BRC-4643	11/20/2017	Broad Rock Creek	No	No	Unlikely	No	Erosion Associated With Outfall
BRC-1129	11/28/2017	Broad Rock Creek	No	Yes	Potential	Yes	
BRC-7895	11/28/2017	Broad Rock Creek	No	No	Unlikely	No	N/A
BRC-1079	11/28/2017	Broad Rock Creek	No	No	Unlikely	No	N/A
BRC-0939	11/29/2017	Broad Rock Creek	No	No	Unlikely	No	N/A
BRC-0946	11/29/2017	Broad Rock Creek	No	No	Unlikely	No	N/A
BRC-2853	11/29/2017	Broad Rock Creek	No	No	Unlikely	No	Accumulation of Litter / Miscellaneous Debris, Erosion Associated With Outfall
BRC-0937	11/29/2017	Broad Rock Creek	Yes	Yes	Unlikely	No	N/A
BRC-6831	12/1/2017	Broad Rock Creek	No	No	Unlikely	No	Appears to Function as Designed
BRC-6838	12/1/2017	Broad Rock Creek	No	No	Unlikely	No	
BRC-6834	12/1/2017	Broad Rock Creek	No	No	Unlikely	No	Is is not clear if this pipe is currently active.
BRC-0888	12/1/2017	Broad Rock Creek	No	No	Potential	No	Accumulation of Litter / Miscellaneous Debris, Erosion Associated With Outfall
BRC-0931	12/1/2017	Broad Rock Creek	No	No	Unlikely	No	Appears to Function as Designed

Outfall ID:	Date:	Creek:	Rain Event Past 48 hours?	Flow Present?	IDDE Potential:	Sample Collected?	Additional Notes:
BRC-013	12/5/2017	Broad Rock Creek	No	Yes	Suspect	Yes	N/A
CBC-0415	12/5/2017	Crooked Branch	No	No	Unlikely	No	Erosion Associated With Outfall, Ill-defined
DOC-4545	12/5/2017	Dooley's Branch	No	No	Unlikely	No	N/A
DOC-4528	12/5/2017	Dooley's Branch	No	No	Unlikely	No	N/A
GC-3413	10/6/2017	Goode's Creek	No	No	Unlikely	No	Appears to Function as Designed
GC-7266	10/6/2017	Goode's Creek	No	No	Unlikely	No	Appears to Function as Designed
GC-8350	10/6/2017	Goode's Creek	No	No	Unlikely	No	Accumulation of Litter / Miscellaneous Debris, Erosion Associated With Outfall
GC-7426	12/5/2017	Goode's Creek	No	Yes	Unlikely	Yes	N/A
GC-6481	1/30/2018	Goode's Creek	No	Yes	Unlikely	Yes	Erosion Associated With Outfall
GC-3071	1/30/2018	Goode's Creek	No	No	Unlikely	No	Appears to Function as Designed
GC-3725	1/30/2018	Goode's Creek	No	No	Unlikely	No	N/A
GC-6361	1/30/2018	Goode's Creek	No	No	Unlikely	No	Appears to Function as Designed
GC-6357	1/30/2018	Goode's Creek	No	No	Potential	No	Accumulation of Litter / Miscellaneous Debris, Erosion Associated With Outfall
GC-002	1/30/2018	Goode's Creek	No	No	Suspect	No	Appears to Function as Designed
GRC-023	3/13/2018	Grindall Creek	Yes	Yes	Obvious	No	Impact related to known / abated SSO
HSC-015	1/17/2018	Horse Swamp Creek	No	Yes	Suspect	Yes	Outfall Re-tagged, pH seems uncharacteristically low.

Outfall ID:	Date:	Creek:	Rain Event Past 48 hours?	Flow Present?	IDDE Potential:	Sample Collected?	Additional Notes:
HSC-003	1/17/2018	Horse Swamp Creek	No	Yes	Potential	Yes	Erosion Associated With Outfall, Outfall Re-tagged
HSC-013	1/17/2018	Horse Swamp Creek	No	Yes	Potential	Yes	N/A
HSC-018	1/17/2018	Horse Swamp Creek	No	Yes	Suspect	Yes	N/A
HSC-006	1/30/2018	Horse Swamp Creek	No	No	Potential	No	N/A
SKC-018	1/3/2018	Shockoe Creek	No	No	Potential	No	N/A
SKC-004	1/3/2018	Shockoe Creek	No	No	Potential	No	Accumulation of Litter / Miscellaneous Debris, Erosion Associated With Outfall

APPENDIX C2 - OUTFALL MONITORING DATA

Outfall Inventory Screening Data											
Almond Creek											
SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB39926	AMD-3051	11/29/2017	12:55	JN/VR	E. Coli		22	1	MPN/100 mL	SM 20 9223 B	MM
AB39926	AMD-3051	11/29/2017	12:55	JN/VR	Ammonia by TNT		0.036	0.015	mg/L	HACH	TM
AB39926	AMD-3051	11/29/2017	12:55	JN/VR	Total Nitrogen		2.64	1	mg/L	TN HACH	TM
AB39926	AMD-3051	11/29/2017	12:55	JN/VR	Total Phosphorus		<0.1	0.1	mg/L	EPA 365.1	FG
AB39926	AMD-3051	11/29/2017	12:55	JN/VR	Potassium		3.20	0.250	mg/L	EPA 200.7	ANALYTICS
AB39926	AMD-3051	11/29/2017	12:55	JN/VR	pH		7.8		su	SM18/4500H+ B	VR
AB39926	AMD-3051	11/29/2017	12:55	JN/VR	Temperature in °C		12.4		°C	SM 20 2550 B	VR
AB39925	AMD-4130	11/29/2017	12:25	JN/VR	E. Coli		17	1	MPN/100 mL	SM 20 9223 B	MM
AB39925	AMD-4130	11/29/2017	12:25	JN/VR	Ammonia by TNT		0.021	0.015	mg/L	HACH	TM
AB39925	AMD-4130	11/29/2017	12:25	JN/VR	Total Nitrogen		2.15	1	mg/L	TN HACH	TM
AB39925	AMD-4130	11/29/2017	12:25	JN/VR	Total Phosphorus		<0.1	0.1	mg/L	EPA 365.1	FG
AB39925	AMD-4130	11/29/2017	12:25	JN/VR	Potassium		3.23	0.250	mg/L	EPA 200.7	ANALYTICS
AB39925	AMD-4130	11/29/2017	12:25	JN/VR	pH		7.3		su	SM18/4500H+ B	VR
AB39925	AMD-4130	11/29/2017	12:25	JN/VR	Temperature in °C		11.3		°C	SM 20 2550 B	VR
AB39924	AMD-7830	11/29/2017	11:15	JN/VR	E. Coli		9	1	MPN/100 mL	SM 20 9223 B	MM
AB39924	AMD-7830	11/29/2017	11:15	JN/VR	Ammonia by TNT		0.047	0.015	mg/L	HACH	TM
AB39924	AMD-7830	11/29/2017	11:15	JN/VR	Total Nitrogen		0.436	1	mg/L	TN HACH	TM
AB39924	AMD-7830	11/29/2017	11:15	JN/VR	Total Phosphorus		<0.1	0.1	mg/L	EPA 365.1	FG
AB39924	AMD-7830	11/29/2017	11:15	JN/VR	Potassium		5.97	0.250	mg/L	EPA 200.7	ANALYTICS
AB39924	AMD-7830	11/29/2017	11:15	JN/VR	pH		7.8		su	SM18/4500H+ B	VR
AB39924	AMD-7830	11/29/2017	11:15	JN/VR	Temperature in °C		13.3		°C	SM 20 2550 B	VR
Broad Rock Creek											
SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB40106	BRC-013	12/4/2017	10:10	JN	E. Coli		146	1	MPN/100 mL	SM 20 9223 B	FG
AB40106	BRC-013	12/4/2017	10:10	JN	Ammonia by TNT		1.16	0.015	mg/L	HACH	FG
AB40106	BRC-013	12/4/2017	10:10	JN	Total Phosphorus		0.2	0.1	mg/L	EPA 365.1	MM
AB40106	BRC-013	12/4/2017	10:10	JN	Potassium		3.8	0.250	mg/L	EPA 200.7	ANALYTICS
AB40106	BRC-013	12/4/2017	10:10	JN	pH		7.9		su	SM18/4500H+ B	JN
AB40106	BRC-013	12/4/2017	10:10	JN	Temperature in °C		10.2		°C	SM 20 2550 B	JN
AB40106	BRC-013	12/4/2017	10:10	JN	Total Nitrogen		2.71	1	mg/L	TN HACH	FG
AB39798	BRC-1129	11/27/2017	11:35	VR	E. Coli		3	1	MPN/100 mL	SM 20 9223 B	FG
AB39798	BRC-1129	11/27/2017	11:35	VR	Ammonia by TNT		0.026	0.015	mg/L	HACH	TM
AB39798	BRC-1129	11/27/2017	11:35	VR	Total Nitrogen		5.87	1	mg/L	TN HACH	TM
AB39798	BRC-1129	11/27/2017	11:35	VR	Total Phosphorus		<0.1	0.1	mg/L	EPA 365.1	FG
AB39798	BRC-1129	11/27/2017	11:35	VR	Potassium		1.96	0.250	mg/L	EPA 200.7	ANALYTICS
AB39798	BRC-1129	11/27/2017	11:35	VR	pH		7.1		su	SM 20 4500 H+ B	VR
AB39798	BRC-1129	11/27/2017	11:35	VR	Temperature in °C		14.5		°C	SM 20 2550 B	VR
AB39530	BRC-6821	11/20/2017	10:00	VR	E. Coli		11	1	MPN/100 mL	SM 20 9223 B	FB
AB39530	BRC-6821	11/20/2017	10:00	VR	Ammonia		<0.1	0.1	mg/L	EPA 350.1	CAA
AB39530	BRC-6821	11/20/2017	10:00	VR	Total Nitrogen		1.23	1	mg/L	TN HACH	CAA
AB39530	BRC-6821	11/20/2017	10:00	VR	Potassium		4.27	0.250	mg/L	EPA 200.7	ANALYTICS
AB39530	BRC-6821	11/20/2017	10:00	VR	Total Phosphorus		<0.1	0.1	mg/L	EPA 365.1	CAA
AB39530	BRC-6821	11/20/2017	10:00	VR	Ammonia by TNT		0.068	0.015	mg/L	HACH	TM
AB39531	BRC-6823	11/20/2017	09:35	VR	Ammonia		<0.1	0.1	mg/L	EPA 350.1	CAA
AB39531	BRC-6823	11/20/2017	09:35	VR	Total Nitrogen		1.40	1	mg/L	TN HACH	CAA
AB39531	BRC-6823	11/20/2017	09:35	VR	Potassium		6.26	0.250	mg/L	EPA 200.7	ANALYTICS
AB39531	BRC-6823	11/20/2017	09:35	VR	Total Phosphorus		<0.1	0.1	mg/L	EPA 365.1	CAA
AB39531	BRC-6823	11/20/2017	09:35	VR	Ammonia by TNT		0.056	0.015	mg/L	HACH	TM
AB39779	BRC-6823	11/27/2017	10:30	VR	E. Coli		1050	1	MPN/100 mL	SM 20 9223 B	MM

Goode's Creek											
SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB42210	GC-6481	1/25/2018	12:00	VR	E. Coli		58	1	MPN/100 mL	SM 20 9223 B	TH
AB42210	GC-6481	1/25/2018	12:00	VR	Ammonia by TNT		0.231	0.015	mg/L	HACH	CAA
AB42210	GC-6481	1/25/2018	12:00	VR	Potassium		6.13	0.250	mg/L	EPA 200.7	ANALYTICS
AB42210	GC-6481	1/25/2018	12:00	VR	Total Nitrogen		1.62	1	mg/L	TN HACH	CAA
AB42210	GC-6481	1/25/2018	12:00	VR	Total Phosphorus		<0.1	0.1	mg/L	EPA 365.1	MM
AB42210	GC-6481	1/25/2018	12:00	VR	pH		6.8		su	SM 20 4500 H+ B	VR
AB42210	GC-6481	1/25/2018	12:00	VR	Temperature in °C		7.3		°C	SM 20 2550 B	VR
AB40107	GC-7426	12/4/2017	10:45	JN	E. Coli		69	1	MPN/100 mL	SM 20 9223 B	FG
AB40107	GC-7426	12/4/2017	10:45	JN	Ammonia by TNT		0.022	0.015	mg/L	HACH	FG
AB40107	GC-7426	12/4/2017	10:45	JN	Total Nitrogen		0.995	1	mg/L	TN HACH	FG
AB40107	GC-7426	12/4/2017	10:45	JN	Total Phosphorus		<0.1	0.1	mg/L	EPA 365.1	MM
AB40107	GC-7426	12/4/2017	10:45	JN	Potassium		5.61	0.250	mg/L	EPA 200.7	ANALYTICS
AB40107	GC-7426	12/4/2017	10:45	JN	pH		7.2		su	SM18/4500H+ B	JN
AB40107	GC-7426	12/4/2017	10:45	JN	Temperature in °C		8.4		°C	SM 20 2550 B	JN
Horse Swamp Creek											
SIDN	DSCR	CDAT	CTIM	SCOL	ANAM	QUAL	ACOM	TPQL	AUNT	AREF	AUSR
AB41824	HSC-003	1/16/2018	11:40	VR	E. Coli		261	1	MPN/100 mL	SM 20 9223 B	TH
AB41824	HSC-003	1/16/2018	11:40	VR	Ammonia by TNT		0.111	0.015	mg/L	HACH	CAA
AB41824	HSC-003	1/16/2018	11:40	VR	Total Nitrogen		3.58	1	mg/L	TN HACH	CAA
AB41824	HSC-003	1/16/2018	11:40	VR	Total Phosphorus		<0.1	0.1	mg/L	EPA 365.1	MM
AB41824	HSC-003	1/16/2018	11:40	VR	Potassium		1.45	0.250	mg/L	EPA 200.7	ANALYTICS
AB41824	HSC-003	1/16/2018	11:40	VR	pH		7.0		su	SM 20 4500 H+ B	VR
AB41824	HSC-003	1/16/2018	11:40	VR	Temperature in °C		8.1		°C	SM 20 2550 B	VR
AB41825	HSC-013	1/16/2018	11:10	VR	E. Coli		13	1	MPN/100 mL	SM 20 9223 B	TH
AB41825	HSC-013	1/16/2018	11:10	VR	Ammonia by TNT		0.041	0.015	mg/L	HACH	CAA
AB41825	HSC-013	1/16/2018	11:10	VR	Total Nitrogen		6.92	1	mg/L	TN HACH	CAA
AB41825	HSC-013	1/16/2018	11:10	VR	Total Phosphorus		<0.1	0.1	mg/L	EPA 365.1	MM
AB41825	HSC-013	1/16/2018	11:10	VR	Potassium		2.16	0.250	mg/L	EPA 200.7	ANALYTICS
AB41825	HSC-013	1/16/2018	11:10	VR	pH		6.3		su	SM 20 4500 H+ B	VR
AB41825	HSC-013	1/16/2018	11:10	VR	Temperature in °C		6.3		°C	SM 20 2550 B	VR
AB41826	HSC-015	1/16/2018	10:10	VR	E. Coli		1120	1	MPN/100 mL	SM 20 9223 B	TH
AB41826	HSC-015	1/16/2018	10:10	VR	Ammonia by TNT		0.024	0.015	mg/L	HACH	CAA
AB41826	HSC-015	1/16/2018	10:10	VR	Total Nitrogen		6.91	1	mg/L	TN HACH	CAA
AB41826	HSC-015	1/16/2018	10:10	VR	Total Phosphorus		<0.1	0.1	mg/L	EPA 365.1	MM
AB41826	HSC-015	1/16/2018	10:10	VR	Potassium		1.63	0.250	mg/L	EPA 200.7	ANALYTICS
AB41826	HSC-015	1/16/2018	10:10	VR	pH		6.1		su	SM 20 4500 H+ B	VR
AB41826	HSC-015	1/16/2018	10:10	VR	Temperature in °C		9.3		°C	SM 20 2550 B	VR
AB41827	HSC-018	1/16/2018	09:45	VR	E. Coli		Cl-no data	1	MPN/100 mL	SM 20 9223 B	ANB
AB41827	HSC-018	1/16/2018	09:45	VR	Ammonia by TNT		0.452	0.015	mg/L	HACH	CAA
AB41827	HSC-018	1/16/2018	09:45	VR	Total Nitrogen		1.61	1	mg/L	TN HACH	CAA
AB41827	HSC-018	1/16/2018	09:45	VR	Total Phosphorus		0.3	0.1	mg/L	EPA 365.1	MM
AB41827	HSC-018	1/16/2018	09:45	VR	Potassium		3.95	0.250	mg/L	EPA 200.7	ANALYTICS
AB41827	HSC-018	1/16/2018	09:45	VR	pH		7.4		su	SM 20 4500 H+ B	VR
AB41827	HSC-018	1/16/2018	09:45	VR	Temperature in °C		6.4		°C	SM 20 2550 B	VR
AB42032	HSC-018	1/22/2018	10:20	VR	Ammonia by TNT		0.620	0.015	mg/L	HACH	CAA
AB42032	HSC-018	1/22/2018	10:20	VR	Total Nitrogen		1.40	1	mg/L	TN HACH	CAA
AB42032	HSC-018	1/22/2018	10:20	VR	Potassium		4.22	0.250	mg/L	EPA 200.7	ANALYTICS
AB42032	HSC-018	1/22/2018	10:20	VR	Total Phosphorus		0.4	0.1	mg/L	EPA 365.1	MM

APPENDIX C3 - ILLICIT DISCHARGE 2017- 2018

Investigation Identifier:	Incident Report Date:	Incident Address/Location:	Incident Summary:	Resolution Summary:	Follow-Up Summary:	Closure Date:
072117 Douglas Aquatics Pool Plaster IDDE	7/21/2017	4901 Monument Ave	Henrico County DPW IDDE personnel discovered contractors pumping a blue substance into two storm inlets on Monument Ave. They told the contractors that they could not discharge any substances into the storm drain and got them to stop discharging. Henrico DPW then reached out to Jeremy Kazio of DEQ for contact information for COR IDDE personnel. COR Pretreatment received notification of the issue and responded to the site. A & H Contractors, subcontracted by Douglas Aquatics, was found to have been discharging an unknown volume of pool plaster finish into the MS4. An NOV was issued to Douglas Aquatics and a copy of the notice was given to A & H Contractors. While Richmond IDDE personnel were on site, the contractors set up several 55 gallon drums in which to discharge the rest of the pool plaster and dispose of off site. COR stormwater operations was notified of the discharge and responded to the site for basin cleaning. The majority of the plaster/water mix had already been released into the system and was deemed to be unrecoverable.	NOV issued to Douglas Aquatics. Proper waste containment set up during investigation. Basins assessed and cleaned by COR stormwater operations.	Not required.	7/21/2017
072717 Grindall Creek Sediment IDDE	07/27/2017	Near 2509 Sisco Avenue	On 07/27/2017, COR IDDEP received a forwarded a pollution complaint from VDEQ regarding a sediment-laden discharge to Grindall Creek reported by DuPont personnel on 07/26/2017. The sediment-laden discharge was not observed to be actively occurring at the time of the investigation. COR IDDEP was able to track evidence of the discharge to a patched utility excavation in the roadway in front of 2509 Sisco Avenue in Richmond, VA 23234. Sediment staining was observed along the roadway and within an earthen drainage ditch which drains to MS4 situated to discharge to Grindall Creek. DPU Water Utilities Supervisor Tedarryl Hite was able to confirm that emergency repair work had been performed and completed on a ruptured 6" potable water supply main near 2509 Sisco Avenue on 07/26/2017. It is anticipated that the sediment-laden flow associated with emergency repairs to the water supply line is the source of the discharge to Grindall Creek reported to the VDEQ by Dupont personnel.	The discharge ceased once the emergency repair was complete.	Not required.	07/27/2017
072817 Wakefield Rd Fuel Spill IDDE	07/28/17	4224 Wakefield Rd	On 7/27/18 a release of approximately 4 gallons of fuel from a DPU excavator impacted a drainage ditch behind 4224 Wakefield Rd. The drainage ditch was situated to discharge to Rattlesnake Creek. The release occurred when the excavator became stuck in the mud. The excavator toppled to one side, rupturing a fuel line. DPU employees were able to remove the majority of the spilled fuel by excavating the impacted soils and using absorbant pads.	It is recommended by DPU Pretreatment to deploy booms downstream of the work site as soon as possible to capture the remaining free product.	A follow up inspection performed on 08/09/17 revealed some residual fuel sheen in the drainage ditch and 4 containment booms that have detached from the creek banks. A request to remove the detached, waterlogged booms and to replace one or two booms was submitted to DPU Stormwater Operations.	08/09/2017
092217 BRC VCU IDDE	09/20/2017	VCU Monitoring Point at BRC	e. Coli samples collected at BRC from 02/2016 until 07/2017 revealed elevated e. Coli levels in multiple samples throughout the sample period. Analytical data from the sample period is included in the supplemental documentation folder for this IDDE. On 09/22/2017, COR IDDEP performed a visual inspection of the VCU sample point, an MS4 outfall with historically marginal/suspicious flow and an upstream area. Visually inspection of the area did not reveal an obvious sanitary impact to BRC flow. In addition to the visual inspection, a standard IDDE sample suite was collected from all three locations.	A review of analytical results from samples collected at BRC did not indicate a sanitary impact to BRC flow at the time of observation. Sample results can be found at G:\Illicit Discharge\2017\092217 BRC VCU IDDE\SupDoc.	Follow-up of outfall considered suspicious will occur per ORI requirements detailed in the COR IDDEP SOP manual.	10/04/2017
092017 Forest Ridge Apts Car Wash IDDE	09/20/2017	2663 and 2669 Central Ave	Pretreatment IDDE Personnel responded to a complaint from Mr. Jorge Charreun regarding suspected illicit discharges, improper drainage, and trash from the Forest Ridge Apartments. Mr. Charreun of Outstanding Remodel Corp purchased 2669 and 2663 Central Ave and intends to build single family homes there. The stormwater outfall and associated drainage ditch that is discharging into the middle of these properties is from the Forest Ridge Apartments located at 2665 Granite Hill Circle. There is a series of drop inlets that drains to this MS4 outfall. Additionally there is a car wash station that drains to this line. Laura Galli and Eleanore Daub of DEQ said the Forest Ridge Apartments are not covered under a VAG75 permit to discharge the car wash water and that residential vehicle wash stations are not being permitted at this time.	Problem notification issued to the Forest Ridge Apartments with request to close or move the vehicle wash station to an area plumbed to the sanitary sewer system within 30 days of receipt of notice.	Although the water spigot and car wash signage are still in place, the hose associated with the vehicle wash station has been removed. It is unclear if vehicle wash operations are still occurring at the site. Evidence of illicit discharge was not observed during follow-up inspection.	10/30/2017

Investigation Identifier:	Incident Report Date:	Incident Address/Location:	Incident Summary:	Resolution Summary:	Follow-Up Summary:	Closure Date:
100317 Fairfield SSO IDDE	10/03/2017	I-64 East and Fairfield Avenue	On 10/03/2017, COR IDDEP responded to an SSO to MS4 identified by VDOT field staff. COR IDDEP verified the source of the SSO then collected water quality samples and flow measurements. The SSO was also forwarded to the DPU sewer collections group to determine the exact location where sanitary sewage was entering City of Richmond MS4. The source of the sanitary impact was determined to be a faulty sanitary line associated with the Fairfield Court Housing Project. DPU collections crews were able to clear the back-up in the sanitary line which had been causing the back-up / bypass to MS4/ Stony Run.	DPU collections identified and mitigated the sanitary release to UT Stony Run. Update 10/19/2017: While collecting follow-up samples to clear this IDDE, COR IDDEP observed evidence of a continuing discharge to UT Stony Run. CCTV investigation revealed two separate illicit connections to COR MS4 originating on the RRHA Fairfield Court property. RRHA assumed responsibility for the issue and took immediate action to mitigate. Flow from the existing illicit connections has been temporarily routed via pump to COR sanitary sewer until a permanent legitimate connection to the sewer main be constructed.	On 03/19/2018, close-out sampling following the removal of the two illicit connections revealed additional sanitary impacts. The issue once again forwarded to DPU collections for investigation and to RRHA for mitigation. Follow-up samples collected on 05/03/2018 did not reveal evidence of a continued sanitary impact.	5/3/2018
102517 Ancarrow Abandoned Storage Tanks IDDE	10/25/17	1200 Brander Street	On 10/25/2017, COR IDDEP responded to a forwarded RFD HAZMAT report of abandoned material in a gravel parking area located in Ancarrow's Landing at 1200 Brander Street, Richmond VA 23224. The abandoned material consisted of one 55-gallon drum and one 250-gallon above ground storage tank (AST). RFD was able to determine that both of the storage containers contained spent motor oil. COR IDDEP initiated removal and proper disposal of the abandoned drum using a contract vendor.	Safety Kleen is slated to remove and dispose of the storage containers. COR IDDEP will present during the removal. The removal of this drum will serve as the close-out date.	Safety Kleen removed and disposed of the contents of the AST on 11/15/2017. DPU removed the AST, transported it to Miller Total Clean to be cleaned out and disposed of the AST on 11/22/2017. Supporting documentation regarding this removal/disposal can be found in the hard copy IDDE file in the Pretreatment file room.	11/22/2017
121117 Kensington Avenue Citizen Complaint IDDE	12/11/2017	Intersection of Kensington Avenue / Chantecler Avenue	On 12/11/17, COR IDDEP responded to citizen complaint forwarded by the VDEQ regarding a "gas smell" coming from a manhole at the intersection of Kensington and Chantecler Avenue. VDEQ and COR IDDEP performed a joint inspection of this complaint. Although no petroleum impact was observed in the sanitary or MS4 collection systems, VDEQ and COR IDDEP were able to detect a natural gas smell wafting from multiple MS4 drop inlets. COR IDDEP notified DPU Gas Works while onsite. DPU Gas Works employees arrived a short time later and took gas meter readings of the area. Gas meter readings revealed evidence of a natural gas leak from a main running along nearby Stuart Avenue.	Responsibility for repair / abatement of the leaking infrastructure has been assigned to DPU Gas Works. Completion of this repair / abatement will be performed per DPU Gas Works protocol.	Follow-up not required.	12/11/2017
011218 1705 Commerce Rd IDDE	01/12/2018	1705 Commerce Rd	On 01/12/2018 COR IDDEP noticed the contractors next door located at 1705 Commerce Rd washing out their concrete trucks. COR IDDEP spoke with superintendent Mr. Phil Starkey of Central Concrete, Inc. located at 12601 Genito Rd. Midlothian, VA 23112. COR IDDEP informed Mr. Starkey that his contractors (Essex Concrete) needed to stop immediately and that the washout water needed to be contained. Mr. Starkey complied with this and informed the drivers that they need to use the roll-off-bin located next to the building. Also, Mr. Starkey stated that he would have his crew remediate the dumped concrete and dispose of it in the roll-off. The washout water didn't appear to discharge to the tributary adjacent the property.	Mr. Starkey had his crew remediate the dumped concrete and dispose of the material in a roll-off. Also, all additional concrete washout would take place into the roll-off.	Follow-up not required.	1/16/2018
011818 Raceway Gasoline Spill IDDE	01/18/2018	6300 Midlothian Turnpike	On 01/18/2018, COR IDDEP responded to a VDEQ-forwarded pollution complaint initially submitted by the owner's of a Raceway fueling. According to the complaint, the release of gasoline to the MS4 was caused when a fuel pump was accidentally damaged by a hit and run. The release was estimated at around 700 gallons and impacted approximately 1000 feet of Reedy Creek from Labrook Concourse to German School Road. COR IDDEP was onsite to observe initial the remediation activities initiated by the owners of the Raceway gas station. Remediation activities included placement of containment booms and flushing and vacuuming free products from MS4. According to VDEQ pollution response personnel, mitigation of the release would be ongoing. Inspection of the impact / remediation area by COR IDDEP occurred on 01/19/2018 and 01/26/2018.	Owner contracted hazardous material clean-up contractors have been tasked with mitigation.	A follow-up inspection of the impacted area was performed on 03/09/2018. Contractor mitigation activities were observed to have concluded. Impacted surface waters were not observed.	03/09/2018

Investigation Identifier:	Incident Report Date:	Incident Address/Location:	Incident Summary:	Resolution Summary:	Follow-Up Summary:	Closure Date:
013018 CSX Engine Oil Release IDDE	01/31/2018	2000 Jefferson Davis Highway	<p>On 01/30/2018, COR IDDEP responded to a VDEQ-forwarded pollution complaint regarding a release of an unknown quantity of a petroleum product at 2000 Jefferson Davis Highway. Upon arrival, COR IDDEP observed Hepaco representative Keeley near the impacted area. According to Mr. Keeley, employees at the facility at 2000 Jefferson Davis Highway had noticed a release of engine oil in between the railway tracks situated along the side of the facility structure and called CSX to report the release. Mr. Keeley stated that the source of the release had been a leaking CSX engine delivering bulk goods to the facility. Mr. Keeley anticipated that Hepaco would complete mitigation of the spill by 02/01/2018.</p> <p>Based on COR IDDEP observations at the impacted area, it is estimated that anywhere from 10- 15 gallons of engine oil was released. The extent of the impact appeared to be limited to the soil/gravel between the railway tracks and stormwater ponded at the end of the railway tracks near the receiving bay at 2000 Jefferson Davis Highway. A petroleum impact to MS4 or Goode's Creek was not observed.</p>	Hepaco contracted to mitigate release on behalf of CSX.	Free product cleared. Light sheen on ponded water. Mitigation has been successfully completed.	02/02/2018
021418 Formex Road Semi Repair IDDE	02/14/2018	Near 3300 Formex Road	<p>Kazio /VDEQ forwarded the following report to COR IDDEP : "I received a call on 2/14/18 @ 0910 hrs. from Donny Chin (804-363-1350) with Old Dominion Freight located at 3300 Formex Rd. Richmond VA 23224 reporting that he witnessed several privately owned tractor trailers parked on the side of Coastal Blvd. leading to that are being repaired/fluids changed. He said that they responsible party(s) are dumping the used oil and fluids into the woods on property owned by Old Dominion Freight and that there is a creek nearby. Based on his description, below is an aerial photos indicating the approximately location of the dumping. He said he first noticed the dumping this morning at ~0800 hrs. and he said that no one is onsite at this time. He is at the location now and is taking photos that he will send to me. I will plan a site visit shortly." COR IDDEP responded along with the Richmond Police Department. Evidence of illicit dumping of waste vehicle fluids and other vehicle-related items were observed on the ground near an area where semi-trucks are typically parked. According to the complainant, semi-truck owner/operators have been observed performing vehicle repair at the location. No one was present or performing vehicle repairs at the time of site recon.</p>	RPD has volunteered to monitor the area along Formex Blvd. for semi-repair operations.	On March 9, 2018, COR IDDEP performed a follow-up inspection on the area. No evidence of continued dumping or ongoing vehicle repair was observed.	03/09/2018
031918 RCC CWP IDDE	03/19/2018	Asset ID STM000040807	A routine follow-up sample collected on 03/19/2018 from "RCC CWP" / Asset ID STM000040807, an outfall situated to discharge to Reedy Creek, was confirmed as having a sanitary component within the flow.	The incident has been forwarded to DPU sewer collections for CCTV exploration to determine in a sanitary cross-connection can be identified and repaired.	As of the issuance of this report, DPU sewer collections considers this investigation ongoing. Close-out sampling will occur when the issue has been mitigated.	Open
032118 Vegas Mart Diesel Release IDDE	3/21/2018	4307 Jefferson Davis Highway	On 03/21/2018, COR IDDEP joined VDEQ pollution response coordinator Steve Tubman and RFD along the Jefferson Davis corridor in response to a pollution complaint citing a petroleum sheen on Grindall Creek. A fueling station (Vegas Mart) located at 4307 Jefferson Davis Highway was determined to be the source of the sheen. According to the site owner/operator, a diesel release had occurred on the site earlier that day. COR IDDEP observed sheen throughout the property grounds. Sheen was also observed leaving the site and entering COR MS4. Mr. Tubman directed the property owner to initiate mitigation.	Mitigation per VDEQ requirements.	Mitigation activities appear complete. Additional release of diesel fuel not observed.	6/27/2018

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042018 Hawks Renovation Dumping IDDE	04/19/18	1240 Westminster Avenue	<p>On 04/20/2018, COR received a forwarded citizen complaint dated 04/19/2018 stating that a contractor was pouring "paint" into a storm water drain near a residential dwelling at 1240 Westminster Avenue. COR IDDEP inspected the property at 1240 Westminster Avenue at approximately 1345 on 04/20/2018. COR IDDEP observed staining in and around the stormwater drop inlet as described in the initial complaint on April 19, 2018. Since no one was home and no contractors were onsite at the time of inspection, COR IDDEP left a contact card on the front door of the house. COR IDDEP noted that a renovation contractor (Hawk's Renovation) had a sign in the front yard. COR IDDEP attempted to reach the Hawk's Renovation twice on 04/20/2018 without success. COR ECO was able to speak with Chris Hawk on 04/23/2018. Chris Hawk stated that his sub-contractors must have washed their tile grout out into the storm drain. Mr. Hawk also stated that he would speak to all of his sub-contractors regarding proper disposal of wastewater. COR ECO informed Mr. Hawk of City code then issued a verbal warning to Mr. Hawks that any future illicit discharges may result in escalated enforcement.</p>	COR ECO informed Mr. Hawk of City code then issued a verbal warning to Mr. Hawks that any future illicit discharges may result in escalated enforcement.	Follow-up not required.	04/23/2018
042418 Albro Creek Complaint IDDE	04/22/2018	Albro Creek / Near Bellemeade ES	<p>On 04/24/2018, COR received a forwarded citizen complaint dated 04/22/2018 stating that someone was releasing something to Albro Creek, giving the creek a black appearance. COR IDDEP observed Albro Creek from multiple locations shortly after receiving the complaint on 04/24/2018. Conditions were rainy at the time of inspection. COR IDDEP did observe turbid water in some observation locations but no evidence of illegal discharge was observed at the time of inspection. COR ECO/IDDEP contact info provided to citizen with a request to notify COR ECO / IDDEP if future discharges are observed. The impacted Albro Creek area will remain under periodic observation indefinitely.</p>	COR ECO/IDDEP contact info provided to citizen with a request to notify COR ECO / IDDEP if future discharges are observed. The impacted Albro Creek area be periodically observed per SOP protocol.	See "051018 Albro Creek Complaint".	04/24/2018
051018 Albro Creek Complaint IDDE	05/10/2018	3506 Hopkins Road	<p>On May 10, 2018 at approximately 1430, the City of Richmond received a forwarded citizen complaint from the Virginia Department of Environmental Quality (VDEQ) stating that Albro Creek, a tributary of Goode's Creek, was observed to be significantly discolored. City of Richmond illicit discharge personnel (Revene/Newton) were able to observe Albro Creek at a concrete headwall near Jefferson Davis Highway and Chesterman Avenue at approximately 1455. COR personnel observed a cloudy, dark gray flow discharging from a 72" reinforced concrete pipe (Asset ID STM00034856) into Albro Creek. By 1510, City of Richmond illicit discharge personnel (Revene/Newton) had successfully tracked the discharge upstream to an ad-hoc vehicle washing area situated near a fire hydrant adjacent the main access road at the City of Richmond Department of Public Works Hopkins Road Facility (GPIN S0071217003) located at 3502 Hopkins Road, Richmond VA 23224-6609. Pounded water, accumulated sediment and wet asphalt were observed leading from the wash area to a storm drain plumbed to discharge to Asset ID STM00034856. Based on these findings it is presumed that vehicle and/or equipment washing at the ad-hoc vehicle wash area observed at the Hopkins Road facility was the source of the illicit discharge to Albro Creek. Photos of the incident can be found on the shared server at G:\Illicit Discharge\2018\051018 Albro Creek Complaint IDDE.</p>	Since discharges from the Hopkins Road facility are authorized under a separate VPDES (VAR052296), City of Richmond findings were forwarded to the VDEQ for review.	No evidence of continuing discharge from DPW Hopkins Road was observed on 09/14/2018. The impacted outfall (Asset ID STM00034856) will be periodically monitored per Pretreatment SOP protocol to ensure additional discharges do not occur.	09/14/2018
051118 Dunston-Bland IDDE	05/11/18	Near the intersection of Dunston and Bland Avenue	<p>On 05/11/2018, COR IDDEP received a citizen complaint regarding a foul odor in the vicinity of Reedy Creek near the intersection of Bland and Dunston Avenue. COR IDDEP was able to determine that the source of the odor was a sanitary impact to an MS4 pipe/outfall situated to discharge to Reedy Creek.</p>	DPU sewer collections crews were notified and identified a back-up in the sanitary line which was entering the MS4 line from an unknown point. The DPU sewer collections crew cleared the blockage and the sanitary impact to the MS4 outfall subsided.	Follow up samples collected on 05/15/2018 did not reveal an obvious sanitary impact. This location is slated to be periodically observed indefinitely. Samples should be collected during follow-up observation events. A copy of the calendar reminder created to schedule observation events can be found at G:\Illicit Discharge\2018\051118 Dunston-Bland IDDE. Additional follow-up samples collected on 06/27/2018, did not reveal a sanitary impact. See WQ data sheet in hard folder.	06/27/2018

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052318 Dock-Main IDDE	05/23/2018	Near the intersection of Main Street and Dock Street	On 05/23/2018, COR IDDEP observed unusual flow from a seep located adjacent an MS4 inlet. Although no odor was observed, samples were collected to determine if the source of the flow was COR sanitary or potable water. Sample results did not reveal the source of the flow to be COR sanitary or potable. CWP IDDE flow chart indicates that the flow was a discharge of unknown origin or blend or groundwater. Seep flow may have resulted from high groundwater table due to significant rainfall. Samples results can be found on the WQ tracking form in the hard file.	Based on the sample results, mitigation is not required.	Follow-up not required.	05/23/2018
052518 Wainwright-Erich IDDE	05/25/2018	Near the intersection of Wainwright and Erich Avenue	On 05/25/2018, COR IDDEP responded to a forwarded citizen complaint regarding a diesel impact to an MS4 inlet near Wainwright and Erich Avenue. COR IDDEP was able to determine that what the citizen had described as a "diesel" sheen was actually a bacterial sheen. The source of the bacterial sheen was observed to be a groundwater seep in the backyard of the property at 5536 Erich Road. According to the property owner, the seep happens periodically after periods of heavy rainfall. No COR potable water or sewer lines are located near the seep. Sample results did not indicate the presence of sanitary or potable in the flow from the seep. CWP IDDE flow chart indicates groundwater / unknown. Photos can be found at G:\Illicit Discharge\2018\052518 Wainwright-Erich IDDE. Sample results can be found on the WQ tracking form in the hard file.	Since the source of complaint was groundwater discharge, no resolution is required.	Follow-up not required.	05/25/2018
060418 Orleans Street Discharge IDDE	06/04/2018	37.517696, -77.413990	COR IDDEP received an illicit discharge complaint from the James River Association regarding an unknown discharge from a CSX rail yard which was flowing off the parcel and entering an MS4 storm drain plumbed to discharge to the James River. Upstream investigation revealed that blocked/damaged private storm infrastructure was causing water to back up and flow down an access road to Orleans Street. Samples collected from the flow did not reveal the presence of COR potable or sanitary. Mitigation / follow-up not required. Sample results can be found in the hard file.	Samples collected from the flow did not reveal the presence of an illicit component. CWP IDDE flow chart indicates either a "flow from an unknown source or blend" or groundwater. No mitigation is required.	Follow-up sampling was performed on August 10 and August 21, 2018 based on continued citizen complaints. Neither of the sample sets revealed the presence of an illicit component. Additional follow-up visits are not scheduled to occur except by internal or citizen request.	08/31/2018
061118 Aldi Private SSO IDDE	06/11/2018	7319 Forest Hill Avenue	On 06/11/2018, COR IDDEP responded to a forwarded citizen complaint from the VDEQ. According to the complaint, a foul-smelling liquid was seeping from a manhole cover located in the Aldi parking lot and flowing into a nearby MS4 drop inlet. COR IDDEP determined the overflow was a sanitary sewer overflow on private property. Since the overflow was actively discharging to the City of Richmond's MS4, collections crews cleared the overflow. There are two businesses on this line whose operations may have caused this sanitary sewer overflow. COR sewer collections crews were unable to determine which specific business was the responsible party.	Since no responsible party could be identified, a notice of problem letter will be issued to the owner and the operator of each of the businesses served by the impacted sanitary sewer line.	Follow-up inspection of the area did not reveal additional sanitary impacts.	07/11/2018

APPENDIX D - BMP LIST

City of Richmond Stormwater Control Measure (SCM) Database 2018													
BMP Database ID	Permit #	Street Number	Street Name	Zip Code	GPS Coordinates Latitude	GPS Coordinates Longitude	VAHUG (6th Order)	Impaired Water Segments within VAHUG	SCM Type	Date Brought Online	Owner Type	Maintenance Agreement	Most Recent Inspection
25	RSMP15122302	1401	German School Road	23225	37.5229167	-77.5160278	JM86	James River, Slate River, Powhite Creek, Rattlesnake Creek, Reedy Creek	Wet Ponds	6/26/2018	Private	Instrument #170022344	6/26/2018
26	RSMP15122302	1401	German School Road	23225	37.5225278	-77.5161944	JM86	James River, Slate River, Powhite Creek, Rattlesnake Creek, Reedy Creek	Hydrodynamic Structures	6/26/2018	Private	Instrument #170022344	6/26/2018
27	RSMP15122302	1401	German School Road	23225	37.5224722	-77.5167222	JM86	James River, Slate River, Powhite Creek, Rattlesnake Creek, Reedy Creek	Hydrodynamic Structures	6/26/2018	Private	Instrument #170022344	6/26/2018
00293	RSMP14122201	3104	Bute Lane	23221	37.54139	-77.48694	JM86	James River, Slate River, Powhite Creek, Rattlesnake Creek, Reedy Creek	Bioretention C/D Soils, Underdrain	5/1/2018	Private	Instrument #150002481	5/1/2018
00311	RSMP15042701	2201	Riverside Dr	23225	37.5247	-77.4562	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Bioretention C/D Soils, Underdrain	6/11/2015	Public	Not required	6/11/2015
00312	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52093631	-77.41454486	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Bioretention C/D Soils, Underdrain	7/1/2017	Private	Instrument #170006070	7/1/2017
00313	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52153535	-77.41408298	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Bioretention C/D Soils, Underdrain	7/1/2017	Private	Instrument #170006070	7/1/2017
00314	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52211516	-77.4120883	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Bioretention C/D Soils, Underdrain	7/1/2017	Private	Instrument #170006070	7/1/2017
00315	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52265877	-77.41433525	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Bioretention C/D Soils, Underdrain	7/1/2017	Private	Instrument #170006070	7/1/2017
00316	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52226271	-77.41288262	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Bioretention C/D Soils, Underdrain	7/1/2017	Private	Instrument #170006070	7/1/2017
00317	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52156127	-77.41321692	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Filtering Practices	7/1/2017	Private	Instrument #170006070	7/1/2017
00318	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52156441	-77.41315152	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Filtering Practices	7/1/2017	Private	Instrument #170006070	7/1/2017
00319	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52157177	-77.4122998	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Filtering Practices	7/1/2017	Private	Instrument #170006070	7/1/2017
00320	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52182054	-77.41244405	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Filtering Practices	7/1/2017	Private	Instrument #170006070	7/1/2017
00321	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52162643	-77.41157731	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Filtering Practices	7/1/2017	Private	Instrument #170006070	7/1/2017
00322	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52068612	-77.41150618	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Filtering Practices	7/1/2017	Private	Instrument #170006070	7/1/2017
00323	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52067165	-77.41150618	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Filtering Practices	7/1/2017	Private	Instrument #170006070	7/1/2017
00324	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52063189	-77.41263568	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Filtering Practices	7/1/2017	Private	Instrument #170006070	7/1/2017
00325	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52061298	-77.41302974	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Filtering Practices	7/1/2017	Private	Instrument #170006070	7/1/2017
00326	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52060044	-77.41329129	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Filtering Practices	7/1/2017	Private	Instrument #170006070	7/1/2017
00327	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52179945	-77.4128405	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Filtering Practices	7/1/2017	Private	Instrument #170006070	7/1/2017
00328	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52202395	-77.41220919	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Filtering Practices	7/1/2017	Private	Instrument #170006070	7/1/2017

00329	RSMP14120401	105-108	Nicholson and Williamsburg Ave	23231	37.52246512	-77.41299678	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Filtering Practices	7/1/2017	Private	Instrument #170006070	7/1/2017
00359	C15050401	3300	1st Avenue	23222	37.5754167	-77.4166944	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Bioretention A/B Soils, Underdrain	9/15/2017	Public	City Property	9/15/2017
00360	C15050401	3300	1st Avenue	23222	37.5752500	-77.4168056	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Permeable Pavement w/o Sand, Vegetation A/B Soils, Underdrain	9/15/2017	Public	City Property	9/15/2017
00370	899032512	3719	Meridian Ave	23222	37.4737222	-77.4400278	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Permeable Pavement w/o Sand, Vegetation A/B Soils, Underdrain	7/20/2017	Public	City Property	7/30/2018
00371	NO PERMIT	509	Cheatwood Ave	23222	37.5891944	-77.4393889	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	Permeable Pavement w/o Sand, Vegetation A/B Soils, No Underdrain	7/17/2017	Public	City Property	7/19/2018
00378	RSMP15081701	5509	Riverside Drive	23225	37.5314100	-77.4942300	JM86	James River, Slate River, Powhite Creek, Rattlesnake Creek, Reedy Creek		7/17/2017	Private	conversion to SUMA to Salleys 9/4/18	7/17/2017
00381	STRM-006051-2016	1914	East Franklin St	23223	37.53364	-77.42521	JL01	Almond Creek, Almond Creek UT (XYA), Broad Rock Creek, Gillies Creek, Goode Creek, James River, James River Tidal Freshwater (Upper) Estuary, Stony Run, XVO and XVP (Almond Creek, UTS)	No Water Quality Credit Given	8/8/2017		draft to Joshua Smith 3/21/16; new version sent 3/29/16	8/8/2017
00408	RSMP-009701-2016	5606	Riverside Drive	23225	37.5345770	-77.4971590	JM86	James River, Slate River, Powhite Creek, Rattlesnake Creek, Reedy Creek		7/24/2017	Private	law dept for approval 12/1/16	7/24/2017
00414	RSMP-009701-2016	5606	Riverside Drive	23225	37.5346340	-77.4968420	JM86	James River, Slate River, Powhite Creek, Rattlesnake Creek, Reedy Creek		7/24/2017	Private	Not required	7/24/2017
00422	RSMP-027125-2017	7101	Jahnke Road	23225	37.5145559	-77.5248859	JM86	James River, Slate River, Powhite Creek, Rattlesnake Creek, Reedy Creek	No Water Quality Credit Given	4/16/2018	Private	draft to Rich Satmaria 2/8/18	4/16/2018
00423	RSMP-027125-2017	7101	Jahnke Road	23225			JM86	James River, Slate River, Powhite Creek, Rattlesnake Creek, Reedy Creek	Nutrient Credit	4/16/2018	Private	draft to Rich Satmaria 2/8/18	4/16/2018
00464	STRM-013036-2017	202	South Robinson St. Rear	23220	37-32-59.16	-77-28-30.21	JM86	James River, Slate River, Powhite Creek, Rattlesnake Creek, Reedy Creek	Underground pipe detention	5/17/2018	Private	Yes	5/17/2018
00487	permit RSMP-018318-2017	25	Westhampton Way	23173	37-34-37.7	77-32-37.4	JM86	James River, James River UT (XZE), Slate River, Salles Creek, Salles Creek UT	Bioretention A/B Soils, Underdrain	6/28/2018	Private	draft to Bomani Lee 6/2/17	6/28/2018
00488	permit RSMP-018318-2017	25	Westhampton Way	23173	37-34-36.7	77-32-38.6	JM86	James River, James River UT (XZE), Slate River, Salles Creek, Salles Creek UT	Dry Extended Detention Ponds	6/28/2018	Private	draft to Bomani Lee 6/2/17	6/28/2018

APPENDIX F - Safety Data for De-Icer

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SPRAYWAY(R*)

SAFETY DATA SHEET

1. IDENTIFICATION



PRODUCT NUMBER: 1000010097

PRODUCT IDENTIFIER: INDUSTRIAL DE-ICER

REVISION DATE: 01-13-2017

COMPANY INFORMATION:
SPRAYWAY, INC.
1005 S. WESTGATE DRIVE
ADDISON, IL 60101
UNITED STATES

COMPANY PHONE GENERAL ASSISTANCE: 1-630-628-3000

EMERGENCY TELEPHONE US: 1-866-836-8855

EMERGENCY TELEPHONE OUTSIDE US: 1-952-852-4646

VERSION #: 03

SUPERSEDES DATE: 01-27-2016

RECOMMENDED USE: DE-ICER

RECOMMENDED RESTRICTIONS: NONE KNOWN.

2. HAZARD(S) IDENTIFICATION



PHYSICAL HAZARDS:

FLAMMABLE AEROSOLS: CATEGORY 1

HEALTH HAZARDS:

ACUTE TOXICITY, ORAL: CATEGORY 3

ACUTE TOXICITY, DERMAL: CATEGORY 3

ACUTE TOXICITY, INHALATION: CATEGORY 3

SERIOUS EYE DAMAGE/EYE IRRITATION: CATEGORY 2

SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE: CATEGORY 2

OSHA DEFINED HAZARDS: NOT CLASSIFIED.

LABEL ELEMENTS:

FLAME

SKULLS AND CROSSBONES

HEALTH HAZARD

EXCLAMATION MARK

SIGNAL WORD: DANGER

HAZARD STATEMENT:

EXTREMELY FLAMMABLE AEROSOL. TOXIC IF SWALLOWED. TOXIC IN CONTACT WITH SKIN. CAUSES SERIOUS EYE IRRITATION. TOXIC IF INHALED. MAY CAUSE DAMAGE TO ORGANS.

PRECAUTIONARY STATEMENT:

PREVENTION:

KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING. DO NOT SPRAY ON AN OPEN FLAME OR OTHER IGNITION SOURCE. PRESSURIZED CONTAINER: DO NOT PIERCE OR BURN, EVEN AFTER USE. DO NOT BREATHE GAS. WASH THOROUGHLY AFTER HANDLING. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. WEAR EYE PROTECTION/FACE PROTECTION. WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING.

RESPONSE:

IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER/DOCTOR. RINSE MOUTH.

IF ON SKIN: WASH WITH PLENTY OF WATER.

IF INHALED:

REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.

IF IN EYES:

RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. CALL A POISON CENTER/DOCTOR.

IF EYE IRRITATION PERSISTS:

GET MEDICAL ADVICE/ATTENTION. TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE.

STORAGE:

STORE IN A WELL-VENTILATED PLACE. STORE LOCKED UP. PROTECT FROM SUNLIGHT. DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C/122 DEG. F.

DISPOSAL:
DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH
LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.

ENVIRONMENTAL HAZARDS:
HAZARDOUS TO THE AQUATIC ENVIRONMENT, ACUTE HAZARD: CATEGORY 3

HAZARD(S) NOT OTHERWISE CLASSIFIED (HNOC): NONE KNOWN.

SUPPLEMENTAL INFORMATION: NONE.

3. COMPOSITION/INFORMATION ON INGREDIENTS



MIXTURES:

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS NUMBER	%
METHANOL		67-56-1	60 - 80
ETHYLENE GLYCOL		107-21-1	2.5 - 10
ISOPROPYL ALCOHOL		67-63-0	2.5 - 10
CARBON DIOXIDE		124-38-9	1 - 2.5
PROPANE		74-98-6	1 - 2.5
OTHER COMPONENTS BELOW REPORTABLE LEVELS			10 - 20
DIETHYLENE GLYCOL N-BUTYL ETHER		111-46-6	0.1 - 1

*DESIGNATES THAT A SPECIFIC CHEMICAL IDENTITY AND/OR PERCENTAGE OF
COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET.

4. FIRST-AID MEASURES



INHALATION:

REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR
BREATHING. OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. DO NOT USE
MOUTH-TO-MOUTH METHOD IF VICTIM INHALED THE SUBSTANCE. INDUCE ARTIFICIAL
RESPIRATION WITH THE AID OF A POCKET MASK EQUIPPED WITH A ONE-WAY VALVE OR
OTHER PROPER RESPIRATORY MEDICAL DEVICE. CALL A POISON CENTER OR
DOCTOR/PHYSICIAN.

SKIN CONTACT:

TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. WASH OFF WITH SOAP AND
WATER. GET MEDICAL ADVICE/ATTENTION IF YOU FEEL UNWELL. GET MEDICAL
ATTENTION IF IRRITATION DEVELOPS AND PERSISTS. WASH CONTAMINATED CLOTHING

BEFORE REUSE.

EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.

INGESTION:

CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. RINSE MOUTH. DO NOT INDUCE VOMITING WITHOUT ADVICE FROM POISON CONTROL CENTER. IF VOMITING OCCURS, KEEP HEAD LOW SO THAT STOMACH CONTENT DOESN'T GET INTO THE LUNGS. DO NOT USE MOUTH-TO-MOUTH METHOD IF VICTIM INGESTED THE SUBSTANCE. INDUCE ARTIFICIAL RESPIRATION WITH THE AID OF A POCKET MASK EQUIPPED WITH A ONE-WAY VALVE OR OTHER PROPER RESPIRATORY MEDICAL DEVICE.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

HEADACHE. DIZZINESS. NAUSEA, VOMITING. SEVERE EYE IRRITATION. SYMPTOMS MAY INCLUDE STINGING, TEARING, REDNESS, SWELLING, AND BLURRED VISION.

PROVIDE GENERAL SUPPORTIVE MEASURES AND TREAT SYMPTOMATICALLY. KEEP VICTIM WARM. KEEP VICTIM UNDER OBSERVATION. SYMPTOMS MAY BE DELAYED.

GENERAL INFORMATION:

TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW THE LABEL WHERE POSSIBLE). ENSURE THAT MEDICAL PERSONNEL ARE AWARE OF THE MATERIAL(S) INVOLVED, AND TAKE PRECAUTIONS TO PROTECT THEMSELVES. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

ALCOHOL RESISTANT FOAM. POWDER. CARBON DIOXIDE (CO2).

UNSUITABLE EXTINGUISHING MEDIA:

DO NOT USE WATER JET AS AN EXTINGUISHER, AS THIS WILL SPREAD THE FIRE.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

CONTENTS UNDER PRESSURE. PRESSURIZED CONTAINER MAY EXPLODE WHEN EXPOSED TO HEAT OR FLAME. DURING FIRE, GASES HAZARDOUS TO HEALTH MAY BE FORMED.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

FIREFIGHTERS MUST USE STANDARD PROTECTIVE EQUIPMENT INCLUDING FLAME RETARDANT COAT, HELMET WITH FACE SHIELD, GLOVES, RUBBER BOOTS, AND IN ENCLOSED SPACES, SCBA.

FIRE FIGHTING EQUIPMENT/INSTRUCTIONS:

MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK. CONTAINERS SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD UP. FOR MASSIVE FIRE IN CARGO AREA, USE UNMANNED HOSE HOLDER OR MONITOR NOZZLES, IF POSSIBLE. IF NOT, WITHDRAW AND LET FIRE BURN OUT.

SPECIFIC METHODS:

USE STANDARD FIREFIGHTING PROCEDURES AND CONSIDER THE HAZARDS OF OTHER INVOLVED MATERIALS. MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK. IN THE EVENT OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES.

GENERAL FIRE HAZARDS: EXTREMELY FLAMMABLE AEROSOL.

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: KEEP UNNECESSARY PERSONNEL AWAY. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND CLOTHING DURING CLEAN-UP. DO NOT BREATHE GAS. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. VENTILATE CLOSED SPACES BEFORE ENTERING THEM. LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE CONTAINED. FOR PERSONAL PROTECTION, SEE SECTION 8 OF THE SDS.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

REFER TO ATTACHED SAFETY DATA SHEETS AND/OR INSTRUCTIONS FOR USE. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. MOVE THE CYLINDER TO A SAFE AND OPEN AREA IF THE LEAK IS IRREPARABLE. ISOLATE AREA UNTIL GAS HAS DISPERSED. ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). KEEP COMBUSTIBLES (WOOD, PAPER, OIL, ETC.) AWAY FROM SPILLED MATERIAL. PREVENT PRODUCT FROM ENTERING DRAINS. COVER WITH PLASTIC SHEET TO PREVENT SPREADING. ABSORB IN VERMICULITE, DRY SAND OR EARTH AND PLACE INTO CONTAINERS. FOLLOWING PRODUCT RECOVERY, FLUSH AREA WITH WATER.

SMALL SPILLS:

WIPE UP WITH ABSORBENT MATERIAL (E.G. CLOTH, FLEECE). CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION. FOR WASTE DISPOSAL, SEE SECTION 13 OF THE SDS.

ENVIRONMENTAL PRECAUTIONS:

AVOID RELEASE TO THE ENVIRONMENT. INFORM APPROPRIATE MANAGERIAL OR SUPERVISORY PERSONNEL OF ALL ENVIRONMENTAL RELEASES. PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. AVOID DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND.

7. HANDLING AND STORAGE



PRESSURIZED CONTAINER:

DO NOT PIERCE OR BURN, EVEN AFTER USE. DO NOT USE IF SPRAY BUTTON IS MISSING OR DEFECTIVE. DO NOT SPRAY ON A NAKED FLAME OR ANY OTHER INCANDESCENT MATERIAL. DO NOT SMOKE WHILE USING OR UNTIL SPRAYED SURFACE IS THOROUGHLY DRY. DO NOT CUT, WELD, SOLDER, DRILL, GRIND, OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION. ALL EQUIPMENT USED WHEN HANDLING THE PRODUCT MUST BE GROUNDED. DO NOT RE-USE EMPTY CONTAINERS. DO NOT BREATHE GAS. DO NOT TASTE OR SWALLOW. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID PROLONGED EXPOSURE. WHEN USING, DO NOT EAT, DRINK OR SMOKE. USE ONLY OUTDOORS OR IN A

WELL-VENTILATED AREA. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. WASH HANDS THOROUGHLY AFTER HANDLING. AVOID RELEASE TO THE ENVIRONMENT. WASH CONTAMINATED CLOTHING BEFORE REUSE. OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES. PRECAUTIONS FOR SAFE HANDLING

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

LEVEL 1 AEROSOL.

STORE LOCKED UP. PRESSURIZED CONTAINER. PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C/122 DEG. F. DO NOT PUNCTURE, INCINERATE OR CRUSH. DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. THIS MATERIAL CAN ACCUMULATE STATIC CHARGE WHICH MAY CAUSE SPARK AND BECOME AN IGNITION SOURCE. STORE IN A WELL-VENTILATED PLACE. STORE AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10 OF THE SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



OCCUPATIONAL EXPOSURE LIMITS:

US. OSHA TABLE Z-1 LIMITS FOR AIR CONTAMINANTS (29 CFR 1910.1000):

COMPONENTS	TYPE	VALUE
CARBON DIOXIDE (CAS 124-38-9)	PEL	9000 MG/M3 5000 PPM
ISOPROPYL ALCOHOL (CAS 67-63-0)	PEL	980 MG/M3 400 PPM
METHANOL (CAS 67-56-1)	PEL	260 MG/M3 200 PPM
PROPANE (CAS 74-98-6)	PEL	1800 MG/M3 1000 PPM

US. ACGIH THRESHOLD LIMIT VALUES:

COMPONENTS	TYPE	VALUE	FORM
CARBON DIOXIDE (CAS 124-38-9)	STEL TWA	30000 PPM 5000 PPM	
ETHYLENE GLYCOL (CAS 107-21-1)	CEILING	100 MG/M3	AEROSOL.
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL TWA	400 PPM 200 PPM	
METHANOL (CAS 67-56-1)	STEL TWA	250 PPM 200 PPM	

US. NIOSH: POCKET GUIDE TO CHEMICAL HAZARDS

COMPONENTS	TYPE	VALUE
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CARBON DIOXIDE (CAS 124-38-9)	STEL	54000 MG/M3 30000 PPM
	TWA	9000 MG/M3 5000 PPM
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	1225 MG/M3 500 PPM
	TWA	980 MG/M3 400 PPM
METHANOL (CAS 67-56-1)	STEL	325 MG/M3 250 PPM
	TWA	260 MG/M3 200 PPM
PROPANE (CAS 74-98-6)	TWA	1800 MG/M3 1000 PPM

US. WORKPLACE ENVIRONMENTAL EXPOSURE LEVEL (WEEL) GUIDES:

COMPONENTS	TYPE	VALUE
DIETHYLENE GLYCOL N-BUTYL ETHER (CAS 111-46-6)	TWA	10 MG/M3

BIOLOGICAL LIMIT VALUES:

ACGIH BIOLOGICAL EXPOSURE INDICES:

COMPONENTS	VALUE	DETERMINANT	SPECIMEN	SAMPLING TIME
ISOPROPYL ALCOHOL (CAS 67-63-0)	40 MG/L	ACETONE	URINE	*
METHANOL (CAS 67-56-1)	15 MG/L	METHANOL	URINE	*

* - FOR SAMPLING DETAILS, PLEASE SEE THE SOURCE DOCUMENT.

EXPOSURE GUIDELINES:

US - CALIFORNIA OELS: SKIN DESIGNATION

METHANOL (CAS 67-56-1) CAN BE ABSORBED THROUGH THE SKIN.

US - MINNESOTA HAZ SUBS: SKIN DESIGNATION APPLIES

METHANOL (CAS 67-56-1) SKIN DESIGNATION APPLIES.

US - TENNESSEE OELS: SKIN DESIGNATION

METHANOL (CAS 67-56-1) CAN BE ABSORBED THROUGH THE SKIN.

US ACGIH THRESHOLD LIMIT VALUES: SKIN DESIGNATION

METHANOL (CAS 67-56-1) CAN BE ABSORBED THROUGH THE SKIN.

US NIOSH POCKET GUIDE TO CHEMICAL HAZARDS: SKIN DESIGNATION

METHANOL (CAS 67-56-1) CAN BE ABSORBED THROUGH THE SKIN.

APPROPRIATE ENGINEERING CONTROLS:

GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES PER HOUR) SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS. IF APPLICABLE, USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. IF EXPOSURE LIMITS HAVE NOT BEEN ESTABLISHED, MAINTAIN AIRBORNE LEVELS TO AN ACCEPTABLE LEVEL. PROVIDE EYEWASH STATION.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).

SKIN PROTECTION:

HAND PROTECTION:

WEAR APPROPRIATE CHEMICAL RESISTANT GLOVES. SUITABLE GLOVES CAN BE RECOMMENDED BY THE GLOVE SUPPLIER.

OTHER:

WEAR APPROPRIATE CHEMICAL RESISTANT CLOTHING. USE OF AN IMPERVIOUS APRON IS RECOMMENDED.

RESPIRATORY PROTECTION:

IF PERMISSIBLE LEVELS ARE EXCEEDED USE NIOSH MECHANICAL FILTER / ORGANIC VAPOR CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR.

THERMAL HAZARDS:

WEAR APPROPRIATE THERMAL PROTECTIVE CLOTHING, WHEN NECESSARY.

GENERAL HYGIENE CONSIDERATIONS:

WHEN USING DO NOT SMOKE. KEEP AWAY FROM FOOD AND DRINK. ALWAYS OBSERVE GOOD PERSONAL HYGIENE MEASURES, SUCH AS WASHING AFTER HANDLING THE MATERIAL AND BEFORE EATING, DRINKING, AND/OR SMOKING. ROUTINELY WASH WORK CLOTHING AND PROTECTIVE EQUIPMENT TO REMOVE CONTAMINANTS.

9. PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE:

PHYSICAL STATE: GAS.

FORM: AEROSOL.

COLOR: NOT AVAILABLE.

ODOR: NOT AVAILABLE.

ODOR THRESHOLD: NOT AVAILABLE.

PH: NOT AVAILABLE.

MELTING POINT/FREEZING POINT: NOT AVAILABLE.

INITIAL BOILING POINT AND BOILING RANGE: 212 DEG. F (100 DEG. C) ESTIMATED

FLASH POINT: -156.0 DEG. F (-104.4 DEG. C) PROPELLANT ESTIMATED

EVAPORATION RATE: NOT AVAILABLE.

FLAMMABILITY (SOLID, GAS): NOT AVAILABLE.

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:

FLAMMABILITY LIMIT - LOWER (%): 6% ESTIMATED

FLAMMABILITY LIMIT - UPPER (%): 33.2% ESTIMATED

EXPLOSIVE LIMIT - LOWER (%): NOT AVAILABLE.

EXPLOSIVE LIMIT - UPPER (%): NOT AVAILABLE.

VAPOR PRESSURE: 65 - 85 PSIG @70F ESTIMATED

VAPOR DENSITY: NOT AVAILABLE.

RELATIVE DENSITY: NOT AVAILABLE.

SOLUBILITY(IES):

SOLUBILITY (WATER): NOT AVAILABLE.

PARTITION COEFFICIENT (N-OCTANOL/WATER): NOT AVAILABLE.

AUTO-IGNITION TEMPERATURE: 829.72 DEG. F (443.18 DEG. C) ESTIMATED

DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

VISCOSITY: NOT AVAILABLE.

OTHER INFORMATION:

EXPLOSIVE PROPERTIES: NOT EXPLOSIVE.

FLAME EXTENSION: 18 IN ESTIMATED

OXIDIZING PROPERTIES: NOT OXIDIZING.

SPECIFIC GRAVITY: 0.853 ESTIMATED

10. STABILITY AND REACTIVITY



REACTIVITY:

THE PRODUCT IS STABLE AND NON-REACTIVE UNDER NORMAL CONDITIONS OF USE, STORAGE AND TRANSPORT.

CHEMICAL STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS:

HAZARDOUS POLYMERIZATION DOES NOT OCCUR.

CONDITIONS TO AVOID:

AVOID TEMPERATURES EXCEEDING THE FLASH POINT. CONTACT WITH INCOMPATIBLE MATERIALS.

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS. ISOCYANATES. CHLORINE.

HAZARDOUS DECOMPOSITION PRODUCTS:

NO HAZARDOUS DECOMPOSITION PRODUCTS ARE KNOWN.

11. TOXICOLOGICAL INFORMATION



INFORMATION ON LIKELY ROUTES OF EXPOSURE:

INHALATION: TOXIC IF INHALED. MAY CAUSE DAMAGE TO ORGANS BY INHALATION.

SKIN CONTACT: TOXIC IN CONTACT WITH SKIN.

EYE CONTACT: CAUSES SERIOUS EYE IRRITATION.

INGESTION: TOXIC IF SWALLOWED.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

HEADACHE. DIZZINESS. NAUSEA, VOMITING. SEVERE EYE IRRITATION. SYMPTOMS MAY INCLUDE STINGING, TEARING, REDNESS, SWELLING, AND BLURRED VISION.

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

TOXIC IF INHALED. TOXIC IN CONTACT WITH SKIN. TOXIC IF SWALLOWED.

COMPONENTS	SPECIES	TEST RESULTS
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DIETHYLENE GLYCOL N-BUTYL ETHER (CAS 111-46-6):

ACUTE:

ORAL:

LD50	HUMAN	1120 MG/KG
	RAT	16500 MG/KG

ETHYLENE GLYCOL (CAS 107-21-1):

ACUTE:

DERMAL:

LD50	MOUSE	>3500 MG/KG
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INHALATION:

LC50 RAT >2.5 MG/L, 6 HOURS

ORAL:

LD50 RAT 7712 MG/KG

ISOPROPYL ALCOHOL (CAS 67-63-0):

ACUTE:

DERMAL:

LD50 RABBIT 16.4 ML/KG, 24 HOURS

INHALATION:

LC50 RAT >10000 PPM, 6 HOURS

ORAL:

LD50 RAT 5.84 G/KG

METHANOL (CAS 67-56-1):

ACUTE:

INHALATION:

LC50 CAT 85.41 MG/L, 4.5 HOURS
43.68 MG/L, 6 HOURS

MOUSE 79.43 MG/L, 134 MINUTES

RAT >115.9 MG/L, 4 HOURS
82.1 MG/L, 6 HOURS

ORAL:

LD50 MONKEY 6000 MG/KG

PIG >5000 MG/KG

RAT 1187 - 2769 MG/KG

PROPANE (CAS 74-98-6):

ACUTE:

INHALATION:

LC50 MOUSE 1237 MG/L, 120 MINUTES
52%, 120 MINUTES

RAT 1355 MG/L
658 MG/L/4H

* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

SKIN CORROSION/IRRITATION:
PROLONGED SKIN CONTACT MAY CAUSE TEMPORARY IRRITATION.

SERIOUS EYE DAMAGE/EYE IRRITATION: CAUSES SERIOUS EYE IRRITATION.

RESPIRATORY OR SKIN SENSITIZATION:

RESPIRATORY SENSITIZATION: NOT A RESPIRATORY SENSITIZER.

SKIN SENSITIZATION:
THIS PRODUCT IS NOT EXPECTED TO CAUSE SKIN SENSITIZATION.

GERM CELL MUTAGENICITY:
NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS PRESENT AT GREATER THAN 0.1% ARE MUTAGENIC OR GENOTOXIC.

CARCINOGENICITY:
THIS PRODUCT IS NOT CONSIDERED TO BE A CARCINOGEN BY IARC, ACGIH, NTP, OR OSHA.

IARC MONOGRAPHS. OVERALL EVALUATION OF CARCINOGENICITY: NOT LISTED.

OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050):
NOT REGULATED.

US. NATIONAL TOXICOLOGY PROGRAM (NTP) REPORT ON CARCINOGENS: NOT LISTED.

REPRODUCTIVE TOXICITY:
THIS PRODUCT IS NOT EXPECTED TO CAUSE REPRODUCTIVE OR DEVELOPMENTAL EFFECTS.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:
SKIN. RESPIRATORY SYSTEM. MAY CAUSE DAMAGE TO ORGANS. CENTRAL NERVOUS SYSTEM. EYES. GASTROINTESTINAL TRACT.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE: NOT CLASSIFIED.

ASPIRATION HAZARD: NOT LIKELY, DUE TO THE FORM OF THE PRODUCT.

CHRONIC EFFECTS: PROLONGED INHALATION MAY BE HARMFUL.

12. ECOLOGICAL INFORMATION



ECOTOXICITY: HARMFUL TO AQUATIC LIFE.

COMPONENTS	SPECIES	TEST RESULTS
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DIETHYLENE GLYCOL N-BUTYL ETHER (CAS 111-46-6):		
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AQUATIC:

CRUSTACEA	EC50	DAPHNIA	84000 MG/L, 48 HOURS
FISH	LC50	WESTERN MOSQUITOFISH (GAMBUSIA AFFINIS)	>32000 MG/L, 96 HOURS

ETHYLENE GLYCOL (CAS 107-21-1):

AQUATIC:

CRUSTACEA	EC50	DAPHNIA	46300 MG/L, 48 HOURS
FISH	LC50	FATHEAD MINNOW (PIMEPHALES PROMELAS)	8050 MG/L, 96 HOURS

ISOPROPYL ALCOHOL (CAS 67-63-0):

AQUATIC:

ALGAE	IC50	ALGAE	1000.0001 MG/L, 72 HOURS
CRUSTACEA	EC50	DAPHNIA	13299 MG/L, 48 HOURS
FISH	LC50	BLUEGILL (LEPOMIS MACROCHIRUS)	>1400 MG/L, 96 HOURS

METHANOL (CAS 67-56-1):

AQUATIC:

CRUSTACEA	EC50	WATER FLEA (DAPHNIA MAGNA)	>10000 MG/L, 48 HOURS
FISH	LC50	FATHEAD MINNOW (PIMEPHALES PROMELAS)	>100 MG/L, 96 HOURS

* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

PERSISTENCE AND DEGRADABILITY:

NO DATA IS AVAILABLE ON THE DEGRADABILITY OF THIS PRODUCT.

BIOACCUMULATIVE POTENTIAL:

PARTITION COEFFICIENT N-OCTANOL / WATER (LOG KOW):

ETHYLENE GLYCOL: -1.36

ISOPROPYL ALCOHOL: 0.05

METHANOL: -0.77

PROPANE: 2.36

MOBILITY IN SOIL: NO DATA AVAILABLE.

OTHER ADVERSE EFFECTS:

NO OTHER ADVERSE ENVIRONMENTAL EFFECTS (E.G. OZONE DEPLETION, PHOTOCHEMICAL OZONE CREATION POTENTIAL, ENDOCRINE DISRUPTION, GLOBAL WARMING POTENTIAL)

ARE EXPECTED FROM THIS COMPONENT.

13. DISPOSAL CONSIDERATIONS



DISPOSAL INSTRUCTIONS:

COLLECT AND RECLAIM OR DISPOSE IN SEALED CONTAINERS AT LICENSED WASTE DISPOSAL SITE. CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE OR CRUSH. DO NOT ALLOW THIS MATERIAL TO DRAIN INTO SEWERS/WATER SUPPLIES. DO NOT CONTAMINATE PONDS, WATERWAYS OR DITCHES WITH CHEMICAL OR USED CONTAINER. DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.

LOCAL DISPOSAL REGULATIONS:

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

HAZARDOUS WASTE CODE:

THE WASTE CODE SHOULD BE ASSIGNED IN DISCUSSION BETWEEN THE USER, THE PRODUCER AND THE WASTE DISPOSAL COMPANY.

WASTE FROM RESIDUES / UNUSED PRODUCTS:

DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS. EMPTY CONTAINERS OR LINERS MAY RETAIN SOME PRODUCT RESIDUES. THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE MANNER (SEE: DISPOSAL INSTRUCTIONS).

CONTAMINATED PACKAGING:

SINCE EMPTIED CONTAINERS MAY RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED. EMPTY CONTAINERS SHOULD BE TAKEN TO AN APPROVED WASTE HANDLING SITE FOR RECYCLING OR DISPOSAL. DO NOT RE-USE EMPTY CONTAINERS.

14. TRANSPORT INFORMATION



DOT:

UN NUMBER: UN1950

UN PROPER SHIPPING NAME:

AEROSOLS, FLAMMABLE, (EACH NOT EXCEEDING 1 L CAPACITY)

TRANSPORT HAZARD CLASS(ES):

CLASS: 2.1

SUBSIDIARY RISK:

LABEL(S): 2.1

PACKING GROUP: NOT APPLICABLE.

SPECIAL PRECAUTIONS FOR USER:

READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

SPECIAL PROVISIONS: N82

PACKAGING EXCEPTIONS: 306

PACKAGING NON BULK: NONE

PACKAGING BULK: NONE

THIS PRODUCT MEETS THE EXCEPTION REQUIREMENTS OF SECTION 173.306 AS A LIMITED QUANTITY AND MAY BE SHIPPED AS A LIMITED QUANTITY. UNTIL 12/31/2020, THE "CONSUMER COMMODITY - ORM-D" MARKING MAY STILL BE USED IN PLACE OF THE NEW LIMITED QUANTITY DIAMOND MARK FOR PACKAGES OF UN 1950 AEROSOLS. LIMITED QUANTITIES REQUIRE THE LIMITED QUANTITY DIAMOND MARK ON CARTONS AFTER 12/31/20 AND MAY BE USED NOW IN PLACE OF THE "CONSUMER COMMODITY ORM-D" MARKING.

IATA:

UN NUMBER: UN1950

UN PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE

TRANSPORT HAZARD CLASS(ES):

CLASS: 2.1

SUBSIDIARY RISK:

LABEL(S): 2.1

PACKING GROUP: NOT APPLICABLE.

ENVIRONMENTAL HAZARDS: NO.

ERG CODE: 10L

SPECIAL PRECAUTIONS FOR USER:

READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

OTHER INFORMATION:

PASSENGER AND CARGO AIRCRAFT: ALLOWED WITH RESTRICTIONS.

CARGO AIRCRAFT ONLY: ALLOWED WITH RESTRICTIONS.

PACKAGING EXCEPTIONS: LTD QTY

IMDG:

UN NUMBER: UN1950

UN PROPER SHIPPING NAME: AEROSOLS

TRANSPORT HAZARD CLASS(ES):

CLASS: 2.1

SUBSIDIARY RISK:

LABEL(S): 2.1

PACKING GROUP: NOT APPLICABLE.

ENVIRONMENTAL HAZARDS:

MARINE POLLUTANT: NO.

EMS: F-D, S-U

SPECIAL PRECAUTIONS FOR USER:

READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

PACKAGING EXCEPTIONS: LTD QTY

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE: NOT APPLICABLE.

DOT: FLAMMABLE GAS, CLASS/DIVISION 2.1

IATA; IMDG: CLASS 2.1 - FLAMMABLE GASES

15. REGULATORY INFORMATION



US FEDERAL REGULATIONS:

THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

TSCA SECTION 12(B) EXPORT NOTIFICATION (40 CFR 707, SUBPT. D):
NOT REGULATED.

CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4):

ETHYLENE GLYCOL (CAS 107-21-1): LISTED.

METHANOL (CAS 67-56-1): LISTED.

SARA 304 EMERGENCY RELEASE NOTIFICATION: NOT REGULATED.

OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050):
NOT REGULATED.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA):

HAZARD CATEGORIES:

IMMEDIATE HAZARD: YES

DELAYED HAZARD: NO

FIRE HAZARD: YES

REACTIVITY HAZARD: NO

PRESSURE HAZARD: NO

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE: NOT LISTED.

SARA 311/312 HAZARDOUS CHEMICAL: NO

SARA 313 (TRI REPORTING):

CHEMICAL NAME	CAS NUMBER	% BY WT.
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METHANOL	67-56-1	60 - 80
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ETHYLENE GLYCOL	107-21-1	2.5 - 10
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OTHER FEDERAL REGULATIONS:

CLEAN AIR ACT (CAA) SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS) LIST:

ETHYLENE GLYCOL (CAS 107-21-1)

METHANOL (CAS 67-56-1)

CLEAN AIR ACT (CAA) SECTION 112(R) ACCIDENTAL RELEASE PREVENTION (40 CFR 68.130):

PROPANE (CAS 74-98-6)

SAFE DRINKING WATER ACT (SDWA): NOT REGULATED.

US STATE REGULATIONS:

US. CALIFORNIA CONTROLLED SUBSTANCES. CA DEPARTMENT OF JUSTICE (CALIFORNIA HEALTH AND SAFETY CODE SECTION 11100): NOT LISTED.

US. CALIFORNIA. CANDIDATE CHEMICALS LIST. SAFER CONSUMER PRODUCTS REGULATIONS (CAL. CODE REGS, TIT. 22, 69502.3, SUBD. (A)):

ETHYLENE GLYCOL (CAS 107-21-1)
ISOPROPYL ALCOHOL (CAS 67-63-0)
METHANOL (CAS 67-56-1)

US. MASSACHUSETTS RTK - SUBSTANCE LIST:

CARBON DIOXIDE (CAS 124-38-9)
ETHYLENE GLYCOL (CAS 107-21-1)
ISOPROPYL ALCOHOL (CAS 67-63-0)
METHANOL (CAS 67-56-1)
PROPANE (CAS 74-98-6)

US. NEW JERSEY WORKER AND COMMUNITY RIGHT-TO-KNOW ACT:

CARBON DIOXIDE (CAS 124-38-9)
ETHYLENE GLYCOL (CAS 107-21-1)
ISOPROPYL ALCOHOL (CAS 67-63-0)
METHANOL (CAS 67-56-1)
PROPANE (CAS 74-98-6)

US. PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW LAW:

CARBON DIOXIDE (CAS 124-38-9)
DIETHYLENE GLYCOL N-BUTYL ETHER (CAS 111-46-6)
ETHYLENE GLYCOL (CAS 107-21-1)
ISOPROPYL ALCOHOL (CAS 67-63-0)
METHANOL (CAS 67-56-1)
PROPANE (CAS 74-98-6)

US. RHODE ISLAND RTK:

ETHYLENE GLYCOL (CAS 107-21-1)
ISOPROPYL ALCOHOL (CAS 67-63-0)
METHANOL (CAS 67-56-1)
PROPANE (CAS 74-98-6)

US. CALIFORNIA PROPOSITION 65:

WARNING:

THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

US - CALIFORNIA PROPOSITION 65 - CRT: LISTED DATE/DEVELOPMENTAL TOXIN

ETHYLENE GLYCOL (CAS 107-21-1):
LISTED: JUNE 19, 2015

METHANOL (CAS 67-56-1):
LISTED: MARCH 16, 2012

INTERNATIONAL INVENTORIES:

COUNTRY(S) OR REGION	INVENTORY NAME	ON INVENTORY (YES/NO)*
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AUSTRALIA	AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) YES	YES
CANADA	DOMESTIC SUBSTANCES LIST (DSL)	YES
CANADA	NON-DOMESTIC SUBSTANCES LIST (NDSL)	NO
CHINA	INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA (IECSC)	YES
EUROPE	EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS)	YES
EUROPE	EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES (ELINCS)	NO
JAPAN	INVENTORY OF EXISTING AND NEW CHEMICAL SUBSTANCES (ENCS)	YES
KOREA	EXISTING CHEMICALS LIST (ECL)	YES
NEW ZEALAND	NEW ZEALAND INVENTORY	YES
PHILIPPINES	PHILIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES (PICCS)	YES
UNITED STATES & PUERTO RICO	TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY	YES

*A "YES" INDICATES THAT ALL COMPONENTS OF THIS PRODUCT COMPLY WITH THE INVENTORY REQUIREMENTS ADMINISTERED BY THE GOVERNING COUNTRY(S)

A "NO" INDICATES THAT ONE OR MORE COMPONENTS OF THE PRODUCT ARE NOT LISTED OR EXEMPT FROM LISTING ON THE INVENTORY ADMINISTERED BY THE GOVERNING COUNTRY(S).

16. OTHER INFORMATION, INCLUDING DATE OF



PREPARATION OR LAST REVISION

ISSUE DATE: 05-30-2015

REVISION DATE: 01-13-2017

VERSION #: 03

DISCLAIMER:

THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. THE INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR

SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS, UNLESS SPECIFIED IN THE TEXT. WE CANNOT ANTICIPATE ALL CONDITIONS UNDER WHICH THIS INFORMATION AND ITS PRODUCT, OR THE PRODUCTS OF OTHER MANUFACTURERS IN COMBINATION WITH ITS PRODUCT, MAY BE USED. IT IS THE USER'S RESPONSIBILITY TO ENSURE SAFE CONDITIONS FOR HANDLING, STORAGE AND DISPOSAL OF THE PRODUCT, AND TO ASSUME LIABILITY FOR LOSS, INJURY, DAMAGE OR EXPENSE DUE TO IMPROPER USE. THE INFORMATION IN THE SHEET WAS WRITTEN BASED ON THE BEST KNOWLEDGE AND EXPERIENCE CURRENTLY AVAILABLE.

REVISION INFORMATION:

THIS DOCUMENT HAS UNDERGONE SIGNIFICANT CHANGES AND SHOULD BE REVIEWED IN ITS ENTIRETY.

PRODUCT NAME: INDUSTRIAL DE-ICER

PRODUCT #: 1000010097

SDS US

APPENDIX G - TRAINING REPORT 2017-2018

Name	Employee Department	Course	Assigned	Progress	Score	Started	Last
Hardy-Wilson, LaDonna	157315 Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jul 2	Jul 2
Gardner, Sheila	9170 Public Utilities	Stormwater Pollution Prevention	No	100%		Jul 2	Jul 2
Mosca, Michael	157157 Public Utilities	Stormwater Pollution Prevention	No	100%		Jul 2	Jul 2
Gardner, Sheila	9170 Public Utilities	Stormwater Pollution Prevention	No	100%	80%	Jul 2	Jul 2
Gardner, Sheila	9170 Public Utilities	Stormwater Pollution Prevention	Yes	100%		Jul 2	Jul 2
Mosca, Michael	157157 Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Brizendine, Matthew	109990 Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jul 2	Jul 2
Hardy-Wilson, LaDonna	157315 Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Gonzalez, Victor	157885 Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Gardner, Sheila	9170 Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Mosca, Michael	157157 Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 2
Brizendine, Matthew	109990 Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Arnold, Jason	157887 Public Utilities	Stormwater Pollution Prevention	Yes	100%	80%	Jul 2	Jul 2
Reed, David	59380 Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 2	Jul 2
Gonzalez, Victor	157885 Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 2	Jul 2
Williams, Michael	156227 Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 2	Jul 2
Gardner, Sheila	9170 Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 2	Jul 2
Johnson, Craig	55980 Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Jul 2	Jul 2
Joyner, Derek	15560 Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 2	Jul 2
Mosca, Michael	157157 Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Evans, Louis	96300 Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Ward, John	157055 Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 2
Johnson, Craig	55980 Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 2
Banks, Keith	77080 Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 2
Brizendine, Matthew	109990 Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Gonzalez, Victor	157885 Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 2
Ward, James	23380 Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 2	Jul 2
Gonzalez, Victor	157885 Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 2	Jul 2
Arnold, Jason	157887 Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 2
Gonzalez, Victor	157885 Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 2
Ward, James	23380 Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Johnson, Craig	55980 Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Gardner, Sheila	9170 Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 2
Banks, Keith	77080 Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Murray, Jermaine	156510 Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Brizendine, Matthew	109990 Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Ward, John	157055 Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Murray, Jermaine	156510 Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Murray, Jermaine	156510 Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Patron, Tiffany	47610 Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Murray, Jermaine	156510 Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 2
Mosca, Michael	157157 Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 2
Ward, James	23380 Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Stewart, Sadiki	157056 Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 2	Jul 2
Evans, Louis	96300 Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 2	Jul 2
Brizendine, Matthew	109990 Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Stewart, Sadiki	157056 Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Anderson, Michael	32560 Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 2	Jul 2
Ward, James	23380 Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 2	Jul 2
Stewart, Sadiki	157056 Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 2
Ward, James	23380 Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	63%	Jul 2	Jul 2

Ward, James	23380	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	60%	100%	Jul 2	Jul 2
Johnson, Craig	55980	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Banks, Keith	77080	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Towne, Douglas	157189	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Stewart, Sadiki	157056	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 2
Ward, John	157055	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Reed, David	59380	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Banks, Keith	77080	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	60%	88%	Jul 2	Jul 2
Johnson, Craig	55980	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 2
Reed, David	59380	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Reed, David	59380	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Reed, David	59380	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Reed, David	59380	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	90%	Jul 2	Jul 2
Shepperson, Harold	113100	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 2
Shepperson, Harold	113100	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 2	Jul 2
Riccio, Angelo	150590	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Hall, Johnathan	144500	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Riccio, Angelo	150590	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Hall, Johnathan	144500	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Carter, Gregory	154560	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Carter, Gregory	154560	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Carter, Gregory	154560	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Carter, Gregory	154560	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Riccio, Angelo	150590	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Galanti, Peter	155657	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Galanti, Peter	155657	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Galanti, Peter	155657	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Galanti, Peter	155657	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Riccio, Angelo	150590	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Jones, Jeffrey	3690	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 3	Jul 3
Houchens, Courtney	157158	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Houchens, Courtney	157158	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 3	Jul 3
Jones, Jeffrey	3690	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Jones, Jeffrey	3690	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%		Jul 3	Jul 3
Houchens, Courtney	157158	Public Utilities	Stormwater Pollution Prevention	Yes	100%	70%	Jul 3	Jul 3
Farr, Calvin	158308	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Pollard, Nelson	97790	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Houchens, Courtney	157158	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Riccio, Angelo	150590	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	88%	Jul 3	Jul 3
Houchens, Courtney	157158	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	71%	Jul 3	Jul 3
Houchens, Courtney	157158	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Jones, Jeffrey	3690	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%		Jul 3	Jul 3
Melvin, Leon	27680	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Jones, Jeffrey	3690	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	100%	Jul 3	Jul 3
Evans, Louis	96300	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Barcliff, James	85450	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Jul 3	Jul 3
Sosa, Miguel	156077	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Pollard, Nelson	97790	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 3	Jul 3
Melvin, Leon	27680	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	71%	Jul 3	Jul 3
Melvin, Leon	27680	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Monnier, Timothy	157741	Public Utilities	Stormwater Pollution Prevention	Yes	100%	50%	Jul 3	Jul 3
Jones, Jeffrey	3690	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3

Monnier, Timothy	157741	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Sosa, Miguel	156077	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Monnier, Timothy	157741	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	60%	Jul 3	Jul 3
Monnier, Timothy	157741	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	70%	Jul 3	Jul 3
Monnier, Timothy	157741	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Jul 3	Jul 3
Monnier, Timothy	157741	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	78%	Jul 3	Jul 3
Monnier, Timothy	157741	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	67%	Jul 3	Jul 3
Barcliff, James	85450	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	63%	Jul 3	Jul 3
Monnier, Timothy	157741	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Monnier, Timothy	157741	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 3	Jul 3
Monnier, Timothy	157741	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Houchens, Courtney	157158	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%		Jul 3	Jul 3
Patron, Tiffany	47610	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 2	Jul 3
Monnier, Timothy	157741	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Houchens, Courtney	157158	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	100%	Jul 3	Jul 3
Sosa, Miguel	156077	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	89%	Jul 3	Jul 3
Melvin, Leon	27680	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 3	Jul 3
Barcliff, James	85450	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Monnier, Timothy	157741	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	60%	100%	Jul 3	Jul 3
Pollard, Nelson	97790	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Sosa, Miguel	156077	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	86%	Jul 3	Jul 3
Anderson, Michael	32560	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Pollard, Nelson	97790	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 3	Jul 3
Pollard, Nelson	97790	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Morton, Ernest	44660	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 2	Jul 3
Arnold, Jason	157887	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 3
Melvin, Leon	27680	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Patron, Tiffany	47610	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Anderson, Michael	32560	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Williams, Brian	87450	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Lewis, Lavon	155298	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Barcliff, James	85450	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Jul 3	Jul 3
Lewis, Lavon	155298	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Arnold, Jason	157887	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 3	Jul 3
Lewis, Lavon	155298	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Fields, Douglas	85380	Public Utilities	Stormwater Pollution Prevention	Yes	100%	80%	Jul 3	Jul 3
Lewis, Lavon	155298	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Anderson, Michael	32560	Public Utilities	Stormwater Pollution Prevention	No	100%		Jul 3	Jul 3
Williams, Brian	87450	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Patron, Tiffany	47610	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 3	Jul 3
Fields, Douglas	85380	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	70%	Jul 3	Jul 3
Osborne, Douglas	38250	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Williams, Brian	87450	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 3	Jul 3
Logan, Leroy	56890	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Todd, Horace	96970	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	60%	88%	Jul 3	Jul 3
Sumpter, Nathaniel	3450	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	63%	Jul 3	Jul 3
Tolson, William	157026	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 3	Jul 3
Evans, Louis	96300	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Fields, Douglas	85380	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 3	Jul 3
Williams, Michael	156227	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 3
Patron, Tiffany	47610	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Williams, Brian	87450	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 3	Jul 3

Sumpster, Nathaniel	3450	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Tolson, William	157026	Public Utilities	Stormwater Pollution Prevention	Yes	100%	70%	Jul 3	Jul 3
Fields, Douglas	85380	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Tolson, William	157026	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Jul 3	Jul 3
Osborne, Douglas	38250	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Logan, Leroy	56890	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 3	Jul 3
Fields, Douglas	85380	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	80%	Jul 3	Jul 3
Williams, Michael	156227	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 2	Jul 3
Tolson, William	157026	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Tolson, William	157026	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Fields, Douglas	85380	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	100%	Jul 3	Jul 3
Sumpster, Nathaniel	3450	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Tolson, William	157026	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Osborne, Douglas	38250	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Anderson, Michael	32560	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Williams, Michael	156227	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 3
Tolson, William	157026	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 3	Jul 3
Joyner, Derek	15560	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Sumpster, Nathaniel	3450	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Logan, Leroy	56890	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Sumpster, Nathaniel	3450	Public Utilities	Stormwater Pollution Prevention	Yes	100%	33%	Jul 3	Jul 3
Logan, Leroy	56890	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 3	Jul 3
Osborne, Douglas	38250	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Brown, Joseph	75830	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 3	Jul 3
Joyner, Derek	15560	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Shepperson, Harold	113100	Public Utilities	Stormwater Pollution Prevention	Yes	100%	0%	Jul 3	Jul 3
Joyner, Derek	15560	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Shepperson, Harold	113100	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Winston, Lynere	102960	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	70%	Jul 3	Jul 3
Winston, Lynere	102960	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 3	Jul 3
Johnson, Keith	158232	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Johnson, Keith	158232	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	70%	Jul 3	Jul 3
Winston, Lynere	102960	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Logan, Edmond	69840	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Johnson, Keith	158232	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Winston, Lynere	102960	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Logan, Edmond	69840	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Johnson, Keith	158232	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 3	Jul 3
Johnson, Keith	158232	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Logan, Edmond	69840	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 3
Winston, Lynere	102960	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Logan, Edmond	69840	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 3
Lockett, Leonardo	158070	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Jul 2	Jul 4
Lockett, Leonardo	158070	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 4	Jul 4
Lockett, Leonardo	158070	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 4	Jul 4
Lockett, Leonardo	158070	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 4	Jul 4
Shepperson, Harold	113100	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 2	Jul 4
Lockett, Leonardo	158070	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 4	Jul 4
Rivers, Darryl	103110	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Bagot, Lloyd	2400	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Bagot, Lloyd	2400	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Bagot, Lloyd	2400	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5

Bagot, Lloyd	2400	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Rivers, Darryl	103110	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 5	Jul 5
Jarmon, Nyles	156390	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Cox, Erik	90300	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 5	Jul 5
Rivers, Darryl	103110	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Jarmon, Nyles	156390	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Rivers, Darryl	103110	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Cox, Erik	90300	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 5	Jul 5
Jarmon, Nyles	156390	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 5	Jul 5
Cox, Erik	90300	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 5	Jul 5
Jarmon, Nyles	156390	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Cox, Erik	90300	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Brown, Joseph	75830	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 5	Jul 5
Barbour, Joseph	118710	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 5	Jul 5
Boston, William	158267	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 5	Jul 5
Thompson, Jonathan	90650	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Barbour, Joseph	118710	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 5	Jul 5
Thompson, Jonathan	90650	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	60%	Jul 5	Jul 5
Lockett, Leonardo	158070	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 5	Jul 5
Thompson, Jonathan	90650	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Morton, Ernest	44660	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 5	Jul 5
Morton, Ernest	44660	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 5
Morton, Ernest	44660	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Barbour, Joseph	118710	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Thompson, Jonathan	90650	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 5	Jul 5
Mayo, Wilford	148050	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Mayo, Wilford	148050	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Cousins, Larry	155764	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Mayo, Wilford	148050	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Thompson, Jonathan	90650	Public Utilities	Stormwater Pollution Prevention	Yes	100%	89%	Jul 2	Jul 5
Mayo, Wilford	148050	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Cousins, Larry	155764	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	89%	Jul 5	Jul 5
Cousins, Larry	155764	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Cousins, Larry	155764	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 5	Jul 5
Brown, Joseph	75830	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 5	Jul 5
Boston, William	158267	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Robertson, Robin	98540	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 5	Jul 5
Robertson, Robin	98540	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Boston, William	158267	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 5	Jul 5
Boston, William	158267	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 5	Jul 5
Robertson, Robin	98540	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 3	Jul 5
Robertson, Robin	98540	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 5	Jul 5
Robertson, Robin	98540	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 5	Jul 5
Robertson, Robin	98540	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 5	Jul 5
Bryant, Tobias	157081	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 6	Jul 6
Bryant, Tobias	157081	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 6	Jul 6
Bryant, Tobias	157081	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 6	Jul 6
Bryant, Tobias	157081	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 6	Jul 6
Bryant, Tobias	157081	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 6	Jul 6
Grant, Charles	157502	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 6	Jul 6
Grant, Charles	157502	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 6	Jul 6
Grant, Charles	157502	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 6	Jul 6

Grant, Charles	157502	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 6	Jul 6
Bies, Mark	1460	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 6	Jul 6
Bies, Mark	1460	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 6	Jul 6
Bies, Mark	1460	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 6	Jul 6
Bies, Mark	1460	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 6	Jul 6
Bies, Mark	1460	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	71%	Jul 6	Jul 6
Bies, Mark	1460	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 6	Jul 6
Brown, Joseph	75830	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 6	Jul 6
Brown, Joseph	75830	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 6
Brown, Joseph	75830	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%		Jul 6	Jul 6
Brown, Joseph	75830	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	90%	Jul 6	Jul 6
Brown, Joseph	75830	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 5	Jul 6
Wilson, Jessie	135100	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 6	Jul 6
Wilson, Jessie	135100	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 6	Jul 6
Wilson, Jessie	135100	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 6	Jul 6
Wilson, Jessie	135100	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 6	Jul 6
Wilson, Jessie	135100	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 6	Jul 6
Richardson, James	115380	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 9	Jul 9
Richardson, James	115380	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 9	Jul 9
Richardson, James	115380	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 9	Jul 9
Richardson, James	115380	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 9	Jul 9
Anderson, Michael	32560	Public Utilities	Stormwater Pollution Prevention	No	100%		Jul 9	Jul 9
Anderson, Michael	32560	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%		Jul 2	Jul 9
Anderson, Michael	32560	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	88%	Jul 9	Jul 9
Barcliff, James	85450	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 3	Jul 9
Barcliff, James	85450	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 3	Jul 9
Barcliff, James	85450	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 9	Jul 9
Barcliff, James	85450	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%		Jul 9	Jul 9
Barcliff, James	85450	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	86%	Jul 9	Jul 9
Barcliff, James	85450	Public Utilities	Stormwater Pollution Prevention	No	100%		Jul 9	Jul 9
Bryant, Damon	146060	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 10	Jul 10
Bryant, Damon	146060	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 10	Jul 10
Bryant, Damon	146060	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 10	Jul 10
Bryant, Damon	146060	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 10	Jul 10
Gardner, Oral	132220	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 10	Jul 10
Gardner, Oral	132220	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 10	Jul 10
Gardner, Oral	132220	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jul 10	Jul 10
Gardner, Oral	132220	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 10	Jul 10
Gardner, Oral	132220	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Jul 10	Jul 10
Gardner, Oral	132220	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 10	Jul 10
Gardner, Oral	132220	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	88%	Jul 10	Jul 10
Gardner, Oral	132220	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%		Jul 10	Jul 10
Gardner, Oral	132220	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%		Jul 10	Jul 10
Barbour, Joseph	118710	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%		Jul 10	Jul 11
Hardy-Wilson, LaDonna	157315	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 2	Jul 11
Hardy-Wilson, LaDonna	157315	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 11	Jul 11
Hardy-Wilson, LaDonna	157315	Public Utilities	Stormwater Pollution Prevention	Yes	100%	80%	Jul 11	Jul 11
Jones, Everett	86960	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 12	Jul 12
Jones, Everett	86960	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Jul 12	Jul 12
Jackson, Barbara	64730	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Carter, Donald	97090	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Jackson, Barbara	64730	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 12	Jul 12

Gordon, Alma	84140	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 12	Jul 12
Bogans, Cedric	35270	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Carter, Donald	97090	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 12	Jul 12
Jackson, Barbara	64730	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 12	Jul 12
Whitehurst, Eric	5600	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Bogans, Cedric	35270	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	60%	Jul 12	Jul 12
Carter, Donald	97090	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 12	Jul 12
Whitehurst, Eric	5600	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 12	Jul 12
Jackson, Barbara	64730	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 12	Jul 12
Carter, Donald	97090	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Bogans, Cedric	35270	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Bell, James	150070	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Jackson, Barbara	64730	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 12	Jul 12
Bogans, Cedric	35270	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Bell, James	150070	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 12	Jul 12
Jackson, Barbara	64730	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Bogans, Cedric	35270	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	60%	86%	Jul 12	Jul 12
Jones, John	145580	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Bell, James	150070	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Ford, Lee	96570	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Ford, Lee	96570	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Bell, James	150070	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Ford, Lee	96570	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Ford, Lee	96570	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Brown, Albert	66540	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Brown, Albert	66540	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Brown, Albert	66540	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Brown, Albert	66540	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Edmonds, Larry	56160	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Edmonds, Larry	56160	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Edmonds, Larry	56160	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 12	Jul 12
Jenkins, Charles	96320	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 12	Jul 12
Edmonds, Larry	56160	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 12
Jenkins, Charles	96320	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 12	Jul 12
Jenkins, Charles	96320	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 13
Hawthorne, Vernia	86190	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 13
Hawthorne, Vernia	86190	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Jenkins, Charles	96320	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Jul 13	Jul 13
Hawthorne, Vernia	86190	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Jenkins, Charles	96320	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 13	Jul 13
Hawthorne, Vernia	86190	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Whitehurst, Eric	5600	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 12	Jul 13
Whitehurst, Eric	5600	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Whitehurst, Eric	5600	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Young, Benjamin	155299	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 13	Jul 13
Whitehurst, Eric	5600	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%	100%	Jul 12	Jul 13
Jones, John	145580	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 13	Jul 13
Young, Benjamin	155299	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Young, Benjamin	155299	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 13	Jul 13
Young, Benjamin	155299	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	70%	Jul 13	Jul 13
Broadnax, Carlton	102670	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Broadnax, Carlton	102670	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13

Broadnax, Carlton	102670	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Broadnax, Carlton	102670	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	60%	100%	Jul 13	Jul 13
Young, Benjamin	155299	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 13	Jul 13
Hatfield, Ricky	76680	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 13	Jul 13
Hawkins, Brian	158081	Public Utilities	Stormwater Pollution Prevention	Yes	100%	80%	Jul 13	Jul 13
Hatfield, Ricky	76680	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 13	Jul 13
Hatfield, Ricky	76680	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Hatfield, Ricky	76680	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Ezzine Elamghari, Nouredine	142400	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Hicks, Matthew	139070	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 13	Jul 13
Battle, Christopher	68420	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Battle, Christopher	68420	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Battle, Christopher	68420	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Battle, Christopher	68420	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Hicks, Matthew	139070	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 13	Jul 13
Spencer, Michael	75510	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Spencer, Michael	75510	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Spencer, Michael	75510	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Spencer, Michael	75510	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Goode, John	156334	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Goode, John	156334	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Goode, John	156334	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Goode, John	156334	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	67%	Jul 13	Jul 13
Hicks, Matthew	139070	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 13	Jul 13
Goode, John	156334	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Hicks, Matthew	139070	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 13	Jul 13
Quesenberry, Floyd	83780	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Quesenberry, Floyd	83780	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 13	Jul 13
Quesenberry, Floyd	83780	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 13	Jul 13
Quesenberry, Floyd	83780	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 13
Stroy, Ronald	156660	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 14	Jul 14
Stroy, Ronald	156660	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Hatfield, Richard	155055	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Stroy, Ronald	156660	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Stroy, Ronald	156660	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Hatfield, Richard	155055	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Hatfield, Richard	155055	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Hatfield, Richard	155055	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Carter, Roy	155979	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Carter, Roy	155979	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Vargas, Robert	157448	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Vargas, Robert	157448	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Vargas, Robert	157448	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 14	Jul 14
Carter, Roy	155979	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Vargas, Robert	157448	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Jackson, Bryant	155874	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Jackson, Bryant	155874	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Jackson, Bryant	155874	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Jackson, Bryant	155874	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Carter, Roy	155979	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 14	Jul 14
Bryant, Toby	58930	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Thompson, Robert	52490	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14

Thompson, Robert	52490	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Thompson, Robert	52490	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Bryant, Toby	58930	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 14	Jul 14
Hicks, Matthew	139070	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	80%	Jul 14	Jul 14
Thompson, Robert	52490	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 14	Jul 14
Dabbs, Linwood	55220	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 15	Jul 15
Dabbs, Linwood	55220	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 15	Jul 15
Dabbs, Linwood	55220	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 15	Jul 15
Dabbs, Linwood	55220	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 15	Jul 15
Dabbs, Linwood	55220	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 15	Jul 15
Whittaker, William	64240	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 15	Jul 15
Malbrough, Ronald	135200	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 15	Jul 15
Malbrough, Ronald	135200	Public Utilities	Stormwater Pollution Prevention	Yes	100%	80%	Jul 15	Jul 15
Malbrough, Ronald	135200	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	70%	Jul 15	Jul 15
Malbrough, Ronald	135200	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 15	Jul 15
Malbrough, Ronald	135200	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	89%	Jul 15	Jul 15
Baty, James	97290	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 16	Jul 16
Bryant, Toby	58930	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 14	Jul 16
Newton, John	157118	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 12	Jul 16
Baty, James	97290	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 16	Jul 16
Bryant, Toby	58930	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Newton, John	157118	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 16	Jul 16
Coleman, Raymond	158100	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 16	Jul 16
Baty, James	97290	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Halsey, Bradley	155882	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 16	Jul 16
Baty, James	97290	Public Utilities	Stormwater Pollution Prevention	Yes	60%	100%	Jul 16	Jul 16
Hinton, Jordan	158177	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Hinton, Jordan	158177	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 16	Jul 16
Hinton, Jordan	158177	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Hinton, Jordan	158177	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Rodriguez, Andre	2500	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Rodriguez, Andre	2500	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Rodriguez, Andre	2500	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Rodriguez, Andre	2500	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Armstrong, Kenneth	53630	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Armstrong, Kenneth	53630	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 16	Jul 16
Armstrong, Kenneth	53630	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Armstrong, Kenneth	53630	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Halsey, Bradley	155882	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Aquart, Devon	117150	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Aquart, Devon	117150	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Halsey, Bradley	155882	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 16	Jul 16
Ezzine Elamghari, Nouredine	142400	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 13	Jul 16
Ezzine Elamghari, Nouredine	142400	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 13	Jul 16
Aquart, Devon	117150	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Aquart, Devon	117150	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Halsey, Bradley	155882	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Marsh, Thomas	32980	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Ezzine Elamghari, Nouredine	142400	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 16	Jul 16
Marsh, Thomas	32980	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 16	Jul 16
Coleman, Kevin	35520	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Coleman, Kevin	35520	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16

Pegram, Vianney	157414	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 16	Jul 16
Robben, Joseph	75150	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Robben, Joseph	75150	Public Utilities	Stormwater Pollution Prevention	Yes	100%	78%	Jul 16	Jul 16
Robben, Joseph	75150	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Robben, Joseph	75150	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Barnes, Andrew	157994	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Pegram, Vianney	157414	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 16	Jul 16
Robben, Joseph	75150	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	60%	100%	Jul 16	Jul 16
Harrison, Harria	63130	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 16	Jul 16
Pegram, Vianney	157414	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Morris, Daylon	157907	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Morris, Daylon	157907	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Harrison, Harria	63130	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Coleman, Kevin	35520	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 16	Jul 16
Coleman, Kevin	35520	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 16	Jul 16
Foley, Kent	100130	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Sams, Elmore	52710	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 16	Jul 16
Sams, Elmore	52710	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Parker, Travis	79810	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Sams, Elmore	52710	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Parker, Travis	79810	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 16	Jul 16
Sams, Elmore	52710	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Parker, Travis	79810	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Parker, Travis	79810	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 16
Wallace, Rembert	68050	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 17	Jul 17
Russell, Jason	137930	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Wallace, Rembert	68050	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 17	Jul 17
Russell, Jason	137930	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 17	Jul 17
Wallace, Rembert	68050	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Wallace, Rembert	68050	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 17	Jul 17
Russell, Jason	137930	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Wallace, Rembert	68050	Public Utilities	Stormwater Pollution Prevention	Yes	60%	0%	Jul 17	Jul 17
Russell, Jason	137930	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 17	Jul 17
Morris, Daylon	157907	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Pegram, Vianney	157414	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 17	Jul 17
Harrison, Harria	63130	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 17	Jul 17
Morris, Daylon	157907	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	71%	Jul 16	Jul 17
Morris, Daylon	157907	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	60%	100%	Jul 17	Jul 17
Harrison, Harria	63130	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 17	Jul 17
Harrison, Harria	63130	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 17	Jul 17
Marsh, Thomas	32980	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 16	Jul 17
Bullock, Phyllis	157489	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Parker, Thomas	85810	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 17	Jul 17
Marsh, Thomas	32980	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 17	Jul 17
Bullock, Phyllis	157489	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Jones, John	145580	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Pegram, Vianney	157414	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Bullock, Phyllis	157489	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 17	Jul 17
Jones, John	145580	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Bullock, Phyllis	157489	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Pegram, Vianney	157414	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%		Jul 16	Jul 17
Coleman, Raymond	158100	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 17	Jul 17

Towne, Douglas	157189	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Towne, Douglas	157189	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	60%		Jul 17	Jul 17
Towne, Douglas	157189	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Coleman, Raymond	158100	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Gordon, Alma	84140	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 17
Gordon, Alma	84140	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 17	Jul 17
Coleman, Raymond	158100	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 17	Jul 17
Towne, Douglas	157189	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 18	Jul 18
Whittaker, William	64240	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 18	Jul 18
Gordon, Alma	84140	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 18	Jul 18
Wright, William	4020	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 18	Jul 18
Fisher, Zachary	155190	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 19	Jul 19
Fisher, Zachary	155190	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 19	Jul 19
Fisher, Zachary	155190	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Jul 19	Jul 19
Fisher, Zachary	155190	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 19	Jul 19
Smith, Shaka	157404	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 19	Jul 19
Fisher, Zachary	155190	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 19	Jul 19
Smith, Shaka	157404	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 19	Jul 19
Smith, Shaka	157404	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 19	Jul 19
Smith, Shaka	157404	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 19	Jul 19
Wright, William	4020	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 18	Jul 19
Wright, William	4020	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 19	Jul 19
Wright, William	4020	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 19	Jul 19
Bruner, Don	136890	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 19	Jul 19
Bruner, Don	136890	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 19	Jul 19
Bartholomew, Ronnie	46010	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 20	Jul 20
Bartholomew, Ronnie	46010	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 20	Jul 20
Bartholomew, Ronnie	46010	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 20	Jul 20
Bartholomew, Ronnie	46010	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 20	Jul 20
Deaton, Barry	110140	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 21
Jackson, Barbara	64730	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%		Jul 12	Jul 21
Whitaker, Willie	98690	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 22	Jul 22
Pawlak, Walter	157102	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 16	Jul 23
Pawlak, Walter	157102	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 23	Jul 23
Barbour, Joseph	118710	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%		Jul 23	Jul 23
Deaton, Barry	110140	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 21	Jul 23
Barbour, Joseph	118710	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	60%	100%	Jul 23	Jul 23
Pawlak, Walter	157102	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 23	Jul 23
Pawlak, Walter	157102	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 23	Jul 23
Pawlak, Walter	157102	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 23	Jul 23
Deaton, Barry	110140	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 23	Jul 23
Deaton, Barry	110140	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 23	Jul 23
Deaton, Barry	110140	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 23	Jul 23
Barnes, Andrew	157994	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 16	Jul 23
Barnes, Andrew	157994	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 23	Jul 23
Barnes, Andrew	157994	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 18	Jul 23
Minor, Brian	108580	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 23	Jul 23
Minor, Brian	108580	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 23	Jul 23
Minor, Brian	108580	Public Utilities	Stormwater Pollution Prevention	Yes	60%	90%	Jul 23	Jul 23
Minor, Brian	108580	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	80%	100%	Jul 23	Jul 23
Minor, Brian	108580	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	60%	88%	Jul 23	Jul 23
Whitaker, Willie	98690	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 23	Jul 23

Whitaker, Willie	98690	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 23	Jul 23
Whitaker, Willie	98690	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 23	Jul 23
Hawkins, Brian	158081	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	60%	Jul 24	Jul 24
Hawkins, Brian	158081	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	70%	Jul 24	Jul 24
Hawkins, Brian	158081	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 24	Jul 24
Hawkins, Brian	158081	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Hawkins, Brian	158081	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 13	Jul 24
Phillips, James	33180	Public Utilities	Stormwater Pollution Prevention	Yes	100%	78%	Jul 24	Jul 24
Bies, Mark	1460	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%	88%	Jul 24	Jul 24
Valentine, Otis	96140	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 24	Jul 24
Middleton, Stephon	155701	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	63%	Jul 24	Jul 24
Middleton, Stephon	155701	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 24	Jul 24
Phillips, James	33180	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 24	Jul 24
Sandridge, Emmett	111260	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Sandridge, Emmett	111260	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Middleton, Stephon	155701	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Thomas, Christopher	155699	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Sandridge, Emmett	111260	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 24	Jul 24
Sandridge, Emmett	111260	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 24	Jul 24
Taylor, John	157833	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 24	Jul 24
Sandridge, Emmett	111260	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Sandridge, Emmett	111260	Public Utilities	Stormwater Pollution Prevention	Yes	100%	80%	Jul 24	Jul 24
Thomas, Christopher	155699	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Pamplin, Antonio	149750	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Middleton, Stephon	155701	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 24	Jul 24
Middleton, Stephon	155701	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	60%	Jul 24	Jul 24
Phillips, James	33180	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	25%	Jul 24	Jul 24
Middleton, Stephon	155701	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 24	Jul 24
Phillips, James	33180	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	50%	Jul 24	Jul 24
Taylor, John	157833	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Middleton, Stephon	155701	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 24	Jul 24
Middleton, Stephon	155701	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	60%	100%	Jul 24	Jul 24
Thomas, Christopher	155699	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	70%	Jul 24	Jul 24
Phillips, James	33180	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	70%	Jul 24	Jul 24
Thomas, Christopher	155699	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	89%	Jul 24	Jul 24
Phillips, James	33180	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	50%	Jul 24	Jul 24
Taylor, John	157833	Public Utilities	Stormwater Pollution Prevention	Yes	100%	89%	Jul 24	Jul 24
Thomas, Christopher	155699	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Taylor, John	157833	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Valentine, Otis	96140	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Phillips, James	33180	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 24	Jul 24
Brubeck, Audrey	148210	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Owens, Jammie	155692	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Owens, Jammie	155692	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Owens, Jammie	155692	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Phillips, James	33180	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	63%	Jul 24	Jul 24
Pamplin, Antonio	149750	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 24	Jul 24
Owens, Jammie	155692	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	60%	100%	Jul 24	Jul 24
Jackson, David	157333	Public Utilities	Stormwater Pollution Prevention	Yes	100%	70%	Jul 24	Jul 24
Rhone, Joseph	157007	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Phillips, James	33180	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Rhone, Joseph	157007	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24

Rhone, Joseph	157007	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Rhone, Joseph	157007	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Bryant, Christopher	156612	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Phillips, James	33180	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	50%	Jul 24	Jul 24
Jackson, David	157333	Public Utilities	Stormwater Pollution Prevention	Yes	100%	80%	Jul 24	Jul 24
Bryant, Christopher	156612	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 24	Jul 24
Bryant, Christopher	156612	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Bryant, Christopher	156612	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	60%	88%	Jul 24	Jul 24
Jackson, David	157333	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Phillips, James	33180	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Jackson, David	157333	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Kizzie, Vernon	158084	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Bell, Charles	157100	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Kizzie, Vernon	158084	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	89%	Jul 24	Jul 24
Jackson, David	157333	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Whittaker, William	64240	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 24	Jul 24
Kizzie, Vernon	158084	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Bell, Charles	157100	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 24	Jul 24
Motley, Defonte	36410	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Bell, Charles	157100	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Motley, Defonte	36410	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Dunn, Calvin	155770	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	86%	Jul 24	Jul 24
Brubeck, Audrey	148210	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Motley, Defonte	36410	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Tyler, Timothy	157964	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Kizzie, Vernon	158084	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Motley, Defonte	36410	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Dunn, Calvin	155770	Public Utilities	Stormwater Pollution Prevention	Yes	100%	80%	Jul 24	Jul 24
Dunn, Calvin	155770	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Jackson, David	157333	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%		Jul 24	Jul 24
Dunn, Calvin	155770	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 24	Jul 24
Tyler, Timothy	157964	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Bell, Charles	157100	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Pamplin, Antonio	149750	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Tyler, Timothy	157964	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Tyler, Timothy	157964	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Irving, Bernardo	154070	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Irving, Bernardo	154070	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
McAdams, Lewis	75890	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Irving, Bernardo	154070	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
McAdams, Lewis	75890	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Irving, Bernardo	154070	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
McAdams, Lewis	75890	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Hite, Tedarryl	34370	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
McAdams, Lewis	75890	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Valentine, Otis	96140	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Valentine, Otis	96140	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	60%	100%	Jul 24	Jul 24
Harris, Kalen	147900	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Brubeck, Audrey	148210	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Wilson, Jackie	154726	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 24	Jul 24
Pulliam, Mack	86780	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 20	Jul 24
Hite, Tedarryl	34370	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24

Wilson, Jackie	154726	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Wilson, Jackie	154726	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Wilson, Jackie	154726	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Harris, Kalen	147900	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Hite, Tedarryl	34370	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 24	Jul 24
Brubeck, Audrey	148210	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Jul 24	Jul 24
Whitehead, Robert	68110	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Harris, Kalen	147900	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Pulliam, Mack	86780	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Hite, Tedarryl	34370	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Pamplin, Antonio	149750	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 24	Jul 24
Lee, Wayne	108150	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Whitehead, Robert	68110	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Harris, Kalen	147900	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Lee, Wayne	108150	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Lee, Wayne	108150	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Whitehead, Robert	68110	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Pamplin, Antonio	149750	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 24	Jul 24
Whitehead, Robert	68110	Public Utilities	Stormwater Pollution Prevention	Yes	60%	100%	Jul 24	Jul 24
Lee, Wayne	108150	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Krebs, Frederic	157988	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Krebs, Frederic	157988	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Williams, Jason	155253	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Jul 24	Jul 24
Pulliam, Mack	86780	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Krebs, Frederic	157988	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
White, Jerry	47440	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	63%	Jul 24	Jul 24
Pulliam, Mack	86780	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Williams, Jason	155253	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Krebs, Frederic	157988	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
White, Jerry	47440	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Williams, Jason	155253	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Harvey, John	155245	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Larkin, Katherine	156563	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Brubeck, Audrey	148210	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Yarhouse, Douglas	108890	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Yarhouse, Douglas	108890	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Yarhouse, Douglas	108890	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Williams, Jason	155253	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Yarhouse, Douglas	108890	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Harvey, John	155245	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Parker, Thomas	85810	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Parker, Thomas	85810	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Larkin, Katherine	156563	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	89%	Jul 24	Jul 24
Harvey, John	155245	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Larkin, Katherine	156563	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Harvey, John	155245	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 24	Jul 24
Rodriguez, Daniel	158447	Information Technology	Stormwater Pollution Prevention	Yes	100%	90%	Jul 24	Jul 24
Ward, Christopher	158328	Department of Emergency Commun	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Larkin, Katherine	156563	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 24	Jul 24
Kropp, Gerald	158432	Social Services	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Larkin, Katherine	156563	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 24	Jul 24
Logan, Annette	121370	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 24	Jul 24

Logan, Annette	121370	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Logan, Annette	121370	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 24	Jul 24
Logan, Annette	121370	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 24	Jul 24
Logan, Annette	121370	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Logan, Annette	121370	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Larkin, Katherine	156563	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 24
Watts, Charles	155144	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 24
Watts, Charles	155144	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%	100%	Jul 24	Jul 24
Watts, Charles	155144	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	100%	Jul 24	Jul 24
Watts, Charles	155144	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	63%	Jul 24	Jul 24
Watts, Charles	155144	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	100%	Jul 24	Jul 24
Parker, Thomas	85810	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Blakeney, Steven	77410	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Blakeney, Steven	77410	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Jul 25	Jul 25
Blakeney, Steven	77410	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	57%	Jul 25	Jul 25
Blakeney, Steven	77410	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Blakeney, Steven	77410	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%		Jul 25	Jul 25
Blakeney, Steven	77410	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	89%	Jul 25	Jul 25
Blakeney, Steven	77410	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Minor, Jewel	85800	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Blakeney, Steven	77410	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%		Jul 25	Jul 25
Blakeney, Steven	77410	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%		Jul 25	Jul 25
Andusko, Matthew	13510	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Hunter, Almer	130790	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 25	Jul 25
Minor, Jewel	85800	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Rawlings, Peter	86150	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Andusko, Matthew	13510	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Rawlings, Peter	86150	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Pegeas, Rodney	24440	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Pegeas, Rodney	24440	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Pegeas, Rodney	24440	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Pegeas, Rodney	24440	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Minor, Jewel	85800	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Daye, Leander	102600	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Andusko, Matthew	13510	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	86%	Jul 25	Jul 25
Daye, Leander	102600	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Rawlings, Peter	86150	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 25	Jul 25
Daye, Leander	102600	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Daye, Leander	102600	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 25	Jul 25
Rawlings, Peter	86150	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Lozano, Monica	158466	Finance	Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Minor, Jewel	85800	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Hunter, Almer	130790	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Rice, LeRoy	158329	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 25	Jul 25
Rice, LeRoy	158329	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%		Jul 25	Jul 25
Williams, Jason	155253	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Jul 25
Hunter, Almer	130790	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 25	Jul 25
Rice, LeRoy	158329	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%	100%	Jul 25	Jul 25
Rice, LeRoy	158329	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	75%	Jul 25	Jul 25
Rice, LeRoy	158329	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	100%	Jul 25	Jul 25
Rice, LeRoy	158329	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	100%	Jul 25	Jul 25
Hunter, Almer	130790	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 25	Jul 25

Hunter, Almer	130790	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	60%	90%	Jul 25	Jul 25
Andusko, Matthew	13510	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	60%	90%	Jul 26	Jul 26
Adamec, John	17570	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 26	Jul 26
Wilkins, Maurice	155420	Public Utilities	Stormwater Pollution Prevention	Yes	60%	90%	Jul 24	Jul 26
Adamec, John	17570	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 26	Jul 26
Mosca, Michael	157157	Public Utilities	Stormwater Pollution Prevention	No	100%		Jul 27	Jul 27
Mosca, Michael	157157	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jul 27	Jul 27
Whittaker, William	64240	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 27	Jul 27
Smith, Lisa	113990	Public Utilities	Stormwater Pollution Prevention	Yes	100%	86%	Jul 27	Jul 27
Gardner, Sheila	9170	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jul 27	Jul 27
Alleynes, Edward	7340	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Jul 27	Jul 27
White, Jerry	47440	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 24	Jul 28
White, Jerry	47440	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Jul 28	Jul 28
White, Jerry	47440	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	71%	Jul 28	Jul 28
White, Jerry	47440	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 28	Jul 28
So, Inq	158219	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 30
Llanes, Miguel	158386	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 30
Metz, Victor	67380	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 30
Adamec, John	17570	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 30
Adamec, John	17570	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 30
Jones, Everett	86960	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	60%	100%	Jul 30	Jul 30
Williams, Monique	155558	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 30	Jul 30
Jones, Everett	86960	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 30
Jones, Everett	86960	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 12	Jul 30
Williams, Monique	155558	Public Utilities	Stormwater Pollution Prevention	Yes	100%	70%	Jul 30	Jul 30
Jones, Everett	86960	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 30	Jul 30
Williams, Monique	155558	Public Utilities	Stormwater Pollution Prevention	Yes	100%	70%	Jul 30	Jul 30
Jones, Everett	86960	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 30
Williams, Monique	155558	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 30
Williams, Monique	155558	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 30	Jul 30
Williams, Monique	155558	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 30
Williams, Monique	155558	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Jul 30	Jul 30
Brown, Torrance	155642	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Jul 30	Jul 30
Metz, Victor	67380	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 30	Jul 30
So, Inq	158219	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 30
Brown, Torrance	155642	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 30	Jul 30
So, Inq	158219	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 30
Metz, Victor	67380	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 30
Brown, Torrance	155642	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Jul 30	Jul 30
Brown, Torrance	155642	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 30	Jul 30
Brown, Torrance	155642	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 30
Bruner, Don	136890	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 23	Jul 30
Bruner, Don	136890	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Jul 30	Jul 30
Moore, Valerie	66550	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 31	Jul 31
Fox, Wesley	120260	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 31
Fox, Wesley	120260	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 30	Jul 31
Fox, Wesley	120260	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Jul 31	Jul 31
Fox, Wesley	120260	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 31	Jul 31
Wynne, Trae	156388	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 1	Aug 1
Wynne, Trae	156388	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Aug 1	Aug 1
Wynne, Trae	156388	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Aug 1	Aug 1
Wynne, Trae	156388	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Aug 1	Aug 1

Grove, Timothy	157022	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Aug 1	Aug 1
Grove, Timothy	157022	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Aug 1	Aug 1
Rose, Ian	158388	Justice Services	Stormwater Pollution Prevention	Yes	100%	90%	Aug 2	Aug 2
Mullen, Brianne	158475	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 3	Aug 3
Giglio, Paul	157145	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Aug 6	Aug 6
Giglio, Paul	157145	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Aug 6	Aug 6
Giglio, Paul	157145	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Aug 6	Aug 6
Giglio, Paul	157145	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Aug 6	Aug 6
Giglio, Paul	157145	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Aug 6	Aug 6
Jones, Marcus	155432	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Aug 6	Aug 6
Jones, Marcus	155432	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Jul 24	Aug 6
Jones, Marcus	155432	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Aug 6	Aug 6
Jones, Marcus	155432	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 6	Aug 6
Jones, Marcus	155432	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	100%	Aug 6	Aug 6
Mahanes, Timothy	153860	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 7	Aug 7
Mahanes, Timothy	153860	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Aug 7	Aug 7
Mahanes, Timothy	153860	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Aug 7	Aug 7
Mahanes, Timothy	153860	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Aug 7	Aug 7
Mahanes, Timothy	153860	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Aug 7	Aug 7
Hayes, Cordell	32330	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Aug 7	Aug 7
Hayes, Cordell	32330	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Aug 7	Aug 7
Goff, Michael	156661	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Aug 7	Aug 7
Hayes, Cordell	32330	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Aug 7	Aug 7
Hayes, Cordell	32330	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Aug 7	Aug 7
Goff, Michael	156661	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Aug 7	Aug 8
Watkins, Melvin	158468	Sheriff's Department	Stormwater Pollution Prevention	Yes	100%	90%	Aug 8	Aug 8
Oosthuizen, Erich	158427	Police Department	Stormwater Pollution Prevention	Yes	100%	90%	Aug 9	Aug 9
Alleyne, Edward	7340	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Jul 27	Aug 10
Alleyne, Edward	7340	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 10	Aug 10
Alleyne, Edward	7340	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Aug 10	Aug 10
So, Inq	158219	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Aug 10	Aug 10
Metz, Victor	67380	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Aug 10	Aug 10
Alleyne, Edward	7340	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Jul 27	Aug 10
Neterer, John	158351	Parks & Recreation	Stormwater Pollution Prevention	Yes	100%	90%	Aug 13	Aug 13
Abed, Nadder	146270	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Aug 16	Aug 16
Grove, Timothy	157022	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Aug 16	Aug 16
Grove, Timothy	157022	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 16	Aug 16
Grove, Timothy	157022	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Aug 16	Aug 16
Abed, Nadder	146270	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Aug 16	Aug 17
Abed, Nadder	146270	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Aug 17	Aug 17
Abed, Nadder	146270	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Aug 17	Aug 17
Purrington, Avis	44270	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 20	Aug 20
Heath, Chris	88270	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Aug 20	Aug 20
Purrington, Avis	44270	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Aug 20	Aug 20
Heath, Chris	88270	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Aug 20	Aug 20
Heath, Chris	88270	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 20	Aug 20
Heath, Chris	88270	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	60%	100%	Aug 20	Aug 20
Brooks, Shawn	99560	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Aug 20	Aug 20
Jones, Terry	152230	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	38%	Aug 20	Aug 20
Brooks, Shawn	99560	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Aug 20	Aug 20
Brooks, Shawn	99560	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Aug 20	Aug 20
Brooks, Shawn	99560	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Aug 20	Aug 20

Jones, Terry	152230	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Aug 20	Aug 21
Jones, Terry	152230	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Aug 21	Aug 21
Jones, Terry	152230	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	86%	Aug 21	Aug 21
Jones, Terry	152230	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	63%	Aug 21	Aug 21
Jones, Terry	152230	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Aug 21	Aug 21
Grove, Timothy	157022	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Aug 1	Aug 21
Jones, Terry	152230	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Aug 22	Aug 22
Hall, Johnathan	144500	Public Utilities	Stormwater Pollution Prevention	No	100%		Aug 23	Aug 23
Hall, Johnathan	144500	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Aug 23	Aug 23
Hall, Johnathan	144500	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Aug 23	Aug 23
Hall, Johnathan	144500	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Aug 23	Aug 23
Coleman, Monique	99450	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 23	Aug 23
Christian, Stacey	24380	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Aug 23	Aug 23
Christian, Stacey	24380	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 23	Aug 23
Christian, Stacey	24380	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Aug 23	Aug 23
Christian, Stacey	24380	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%		Aug 23	Aug 23
Christian, Stacey	24380	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%		Aug 23	Aug 23
Christian, Stacey	24380	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	60%	Aug 23	Aug 23
Christian, Stacey	24380	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Aug 23	Aug 23
Coleman, Monique	99450	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Aug 23	Aug 23
Ortiz, Rosita	158473	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Aug 23	Aug 23
Massey, Alisa	158553	Public Utilities	Stormwater Pollution Prevention	No	100%		Aug 23	Aug 23
Massey, Alisa	158553	Public Utilities	Stormwater Pollution Prevention	No	60%	100%	Aug 23	Aug 23
Coleman, Monique	99450	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Aug 24	Aug 24
Coleman, Monique	99450	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Aug 23	Aug 24
Coleman, Monique	99450	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Aug 24	Aug 24
Coleman, Monique	99450	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	75%	Aug 24	Aug 24
Coleman, Monique	99450	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Aug 24	Aug 24
Coleman, Monique	99450	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Aug 24	Aug 24
Edmondson, Edwin	145020	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Aug 27	Aug 27
Edmondson, Edwin	145020	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 27	Aug 27
Thomas, Richard	33900	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	100%	Aug 27	Aug 27
Thomas, Richard	33900	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	90%	Aug 27	Aug 27
Thomas, Richard	33900	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 27	Aug 27
Thomas, Richard	33900	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Aug 27	Aug 27
Blankenship, Allen	121840	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	63%	Aug 28	Aug 28
Blankenship, Allen	121840	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	71%	Aug 28	Aug 28
Blankenship, Allen	121840	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Aug 28	Aug 28
Blankenship, Allen	121840	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 28	Aug 28
Blankenship, Allen	121840	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Aug 28	Aug 28
Blankenship, Allen	121840	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Aug 29	Aug 29
Blount, Isiah		Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Aug 29	Aug 29
Williams, Durante	358957	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 29	Aug 29
Hall-Moss, Barbara	25860	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 29	Aug 29
Clarke, Akeia	155851	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 23	Aug 30
Cornell, William	155625	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Aug 30	Aug 30
Cornell, William	155625	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Aug 30	Aug 30
Cornell, William	155625	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Aug 31	Aug 31
Cornell, William	155625	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Aug 31	Aug 31
Smith, Jamilia	636575	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Sep 12	Sep 12
Samuel, Sadberry	157575	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Sep 12	Sep 12
Clarke, Jessica	8778758	Public Utilities	Stormwater Pollution Prevention	Yes	100%	100%	Sep 12	Sep 12

Mason, Joseph	143620	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Sep 14	Sep 14
Mason, Joseph	143620	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	75%	Sep 14	Sep 14
Mason, Joseph	143620	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Sep 14	Sep 14
Mason, Joseph	143620	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	100%	Sep 14	Sep 14
Mason, Joseph	143620	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	100%	Sep 14	Sep 14
Reese, Aaron	156226	Public Utilities	Stormwater Pollution Prevention	Yes	100%	90%	Sep 15	Sep 15
Reese, Aaron	156226	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	Yes	100%	80%	Sep 15	Sep 15
Reese, Aaron	156226	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	Yes	100%	88%	Sep 15	Sep 15
Reese, Aaron	156226	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	Yes	100%	88%	Sep 15	Sep 15
Whitaker, Willie	98690	Public Utilities	Stormwater Pollution Prevention	No	100%	90%	Jun 1	Jun 1
So, Inq	158219	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 4	Jun 4
So, Inq	158219	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 4	Jun 4
Tucker, Sharon	37590	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 5	Jun 5
Foley, Kent	100130	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 5	Jun 5
Tucker, Sharon	37590	Public Utilities	Stormwater Pollution Prevention	No	100%	90%	Jun 5	Jun 5
Farris, Sarah	150190	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 5	Jun 5
Tucker, Sharon	37590	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 5	Jun 5
Mitchell, Otis	99140	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 5	Jun 5
Farris, Sarah	150190	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 5	Jun 5
Mitchell, Otis	99140	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 5	Jun 5
Keel, William	115930	Public Utilities	Stormwater Pollution Prevention	No	60%	100%	Jun 5	Jun 5
Harrison, Harria	63130	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 6	Jun 7
Goff, Michael	156661	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 8	Jun 8
Metz, Victor	67380	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 8	Jun 8
Harrison, James	97020	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 8	Jun 8
Lewis, Shellie	87510	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 11	Jun 11
Lewis, Shellie	87510	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 11	Jun 11
Boston, William	158267	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 8	Jun 11
Boston, William	158267	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 11	Jun 11
Walston, Carlton	157673	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 12	Jun 12
Thomas, Michael	75180	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 18	Jun 18
Beck, Dennis	32830	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 18	Jun 18
Lewis, Lavon	155298	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 19	Jun 19
Evans, Louis	96300	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 19	Jun 19
Evans, Louis	96300	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 19	Jun 19
Rivers, Darryl	103110	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 19	Jun 19
Hall, Johnathan	144500	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 19	Jun 19
Giles, Paula	66690	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 19	Jun 19
Giles, Paula	66690	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 19	Jun 19
Lockett, Leonardo	158070	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 20	Jun 20
Williams, Michael	156227	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 20	Jun 20
Bryant, Damon	146060	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 20	Jun 20
Lockett, Leonardo	158070	Public Utilities	Stormwater Pollution Prevention	No	100%	90%	Jun 20	Jun 20
Bryant, Damon	146060	Public Utilities	Stormwater Pollution Prevention	No	60%	80%	Jun 20	Jun 20
Williams, Michael	156227	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 20	Jun 20
Evans, Louis	96300	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 20	Jun 20
Logan, Leroy	56890	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 20	Jun 20
Logan, Leroy	56890	Public Utilities	Stormwater Pollution Prevention	No	60%	90%	Jun 20	Jun 20
Sumpter, Nathaniel	3450	Public Utilities	Stormwater Pollution Prevention	No	100%	70%	Jun 20	Jun 20
Wright, Berry	93660	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 20	Jun 20
Morton, Ernest	44660	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 20	Jun 20
Morton, Ernest	44660	Public Utilities	Stormwater Pollution Prevention	No	60%	100%	Jun 20	Jun 20

Sumpter, Nathaniel	3450	Public Utilities	Stormwater Pollution Prevention	No	60%	90%	Jun 20	Jun 20
Shepperson, Harold	113100	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 20	Jun 20
Shepperson, Harold	113100	Public Utilities	Stormwater Pollution Prevention	No	60%	89%	Jun 20	Jun 20
Jones, Everett	86960	Public Utilities	Stormwater Pollution Prevention	No	60%	100%	Jun 20	Jun 20
Richardson, James	115380	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 20	Jun 20
Anderson, Michael	32560	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 19	Jun 20
Todd, Horace	96970	Public Utilities	Stormwater Pollution Prevention	No	80%	90%	Jun 20	Jun 20
Richardson, James	115380	Public Utilities	Stormwater Pollution Prevention	No	100%	80%	Jun 20	Jun 20
Anderson, Michael	32560	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 20	Jun 20
Anderson, Michael	32560	Public Utilities	Stormwater Pollution Prevention	No	60%	90%	Jun 20	Jun 20
Riccio, Angelo	150590	Public Utilities	Stormwater Pollution Prevention	No	60%	90%	Jun 20	Jun 20
Brown, Joseph	75830	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 20	Jun 20
Jenkins, Kim	157915	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 20	Jun 20
Brown, Joseph	75830	Public Utilities	Stormwater Pollution Prevention	No	100%	90%	Jun 20	Jun 20
Joyner, Derek	15560	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 20	Jun 20
Joyner, Derek	15560	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 20	Jun 20
Joyner, Derek	15560	Public Utilities	Stormwater Pollution Prevention	No	60%	100%	Jun 20	Jun 20
Revene, Vincent	145350	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	75%	Jun 22	Jun 22
Newton, John	157118	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 22	Jun 22
Newton, John	157118	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%	88%	Jun 22	Jun 22
Cousins, Larry	155764	Public Utilities	Stormwater Pollution Prevention	No	60%	100%	Jun 22	Jun 22
Gunter, Clifford	129080	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%		Jun 22	Jun 22
Jenkins, Kim	157915	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%		Jun 22	Jun 22
Jenkins, Kim	157915	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%	100%	Jun 22	Jun 22
Jenkins, Kim	157915	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%		Jun 22	Jun 22
Jenkins, Kim	157915	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%		Jun 24	Jun 24
Jenkins, Kim	157915	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	75%	Jun 22	Jun 24
Jenkins, Kim	157915	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	100%	Jun 24	Jun 24
Jenkins, Kim	157915	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	90%	Jun 24	Jun 24
Jenkins, Kim	157915	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	90%	Jun 24	Jun 24
Lewis, Mark	7880	Public Utilities	Stormwater Pollution Prevention	No	100%	90%	Jun 25	Jun 25
Lewis, Mark	7880	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	75%	Jun 25	Jun 25
Whitehurst, Eric	5600	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 25	Jun 25
Gunter, Clifford	129080	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%	88%	Jun 25	Jun 25
Lewis, Mark	7880	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	100%	Jun 25	Jun 25
Whitehurst, Eric	5600	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	88%	Jun 25	Jun 25
Lewis, Mark	7880	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	80%	Jun 25	Jun 25
Gunter, Clifford	129080	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	100%	Jun 22	Jun 25
Lewis, Mark	7880	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%	75%	Jun 25	Jun 25
Lewis, Mark	7880	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%	88%	Jun 25	Jun 25
Gunter, Clifford	129080	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	100%	Jun 25	Jun 25
Gunter, Clifford	129080	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%		Jun 25	Jun 25
Revene, Vincent	145350	Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%	100%	Jun 25	Jun 25
Revene, Vincent	145350	Public Utilities	MS4 - Road, Street & Parking Lots Stormwater Pollution Prevention	No	100%	100%	Jun 25	Jun 25
Gunter, Clifford	129080	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 25	Jun 25
Revene, Vincent	145350	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	100%	Jun 22	Jun 26
Revene, Vincent	145350	Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 22	Jun 26
Revene, Vincent	145350	Public Utilities	MS4 - Facility & Maintenance Stormwater Pollution Prevention	No	100%	100%	Jun 26	Jun 26
Hall, Johnathan	144500	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 19	Jun 26
Hall, Johnathan	144500	Public Utilities	Stormwater Pollution Prevention	No	60%	100%	Jun 26	Jun 26
Johnson, Spotswood	46450	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 26	Jun 26
Johnson, Spotswood	46450	Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 26	Jun 26

Johnson, Spotswood	46450 Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 26	Jun 26
Johnson, Spotswood	46450 Public Utilities	Stormwater Pollution Prevention	No	100%	90%	Jun 26	Jun 26
Olsen, Surani	157491 Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 27	Jun 27
Newton, John	157118 Public Utilities	MS4 -Vehicle & Equipment Stormwater Pollution Prevention	No	100%	100%	Jun 22	Jun 27
Currin, Donald	98010 Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 28	Jun 28
Moon, Jacqueline	11640 Public Utilities	Stormwater Pollution Prevention	No	100%		Jun 29	Jun 29
Davis, Bertell	158265 Public Utilities	Stormwater Pollution Prevention	No	100%	100%	Jun 29	Jun 29

SECTION 02010

EROSION AND SEDIMENT CONTROL

PART 1 GENERAL

1.1 DESCRIPTION

- A. Scope: The CONTRACTOR shall furnish, construct, maintain and replace all erosion and sediment control features specified and required by the OWNER, the local sediment control inspectors, any other regulatory agency which has control or jurisdiction over erosion and sedimentation control in the area in which the project is located and Virginia Soil and Water Conservation Commission in the Virginia Erosion and Sediment Control Handbook. CONTRACTOR shall be responsible for obtaining all erosion and sediment control permits required prior to any land disturbing operations.
- B. Related Work Specified in Other Sections Includes:
 - 1. Section 02110 - Clearing, Grubbing and Site Restoration.
 - 2. Section 02220 - Excavation and Backfill.

1.2 QUALITY ASSURANCE

- A. Reference Codes and Standards: CONTRACTOR shall reference the latest edition of the code or standard at the time of project advertisement or assignment. Comply with applicable provisions and recommendations of the following, except as otherwise shown or specified:
 - 1. Virginia Erosion and Sediment Control Handbook, Latest Edition.
 - 2. Virginia Erosion and Sediment Control Regulations.
 - 3. Virginia Erosion and Sediment Control Law.
 - 4. Virginia Storm Water Management Regulations.

1.3 SUBMITTALS

- A. General: Provide all submittals, including the following, as specified in Division 1.
 - 1.
- B. Shop Drawings:
 - 1. Submit Erosion and Sediment Control plan showing details of erosion and sediment control devices and locations. Submittal information shall comply with requirements of regulatory agency which has jurisdiction over erosion and sediment control in the area in which the project is located. Submit

technical data, manufacturers literature and catalog information for the products specified.

2. Submit copies of approved Erosion and Sediment Control permits from appropriate governing jurisdictions.

PART 2 PRODUCTS

2.1 GENERAL

- A. Temporary Silt Fence: Silt fencing shall be furnished as specified in the latest edition of "Virginia Erosion and Sediment Control Handbook" Standard and Specification 3.05.
- B. Temporary Sediment Trap: Temporary sediment trap outlets shall be as specified in the latest edition of "Virginia Erosion and Sediment Control Handbook" Standard and Specification 3.13.
- C. Temporary Diversion Dike: Provide temporary diversion dikes as specified in the latest edition of "Virginia Erosion and Sediment Control Handbook" Standard and Specification 3.09.
- D. Temporary Gravel Construction Entrance: Temporary gravel construction entrances shall be furnished in accordance with the latest edition of "Virginia Erosion and Sediment Control Handbook" Standard and Specification 3.02.
- E. Temporary Tree Protection: Provide fencing as specified in the latest edition of "Virginia Erosion and Sediment Control Handbook" Standard and Specification 3.38, Section 8.
- F. Temporary Storm Drain Inlet Protection: Storm drain inlet protection shall be furnished in accordance with the latest edition of "Virginia Erosion and Sediment Control Handbook" Standard and Specification 3.07.
- G. Permanent Level Rip Rap Aprons: Rip rap shall be furnished as specified in the latest edition of "Virginia Erosion and Sediment Control Handbook," Standard and Specification 3.18.
- H. Erosion Control Blankets: Erosion Control Blankets, Excelsior or equivalent shall be furnished as specified in the latest edition of "Virginia Erosion and Sediment Control Handbook" Standard and Specification 3.36.

PART 3 INSTALLATION AND MAINTENANCE

3.1 TEMPORARY PRACTICES

- A. Silt fencing, diversion dikes, yard inlet protection, temporary sediment traps, and temporary construction entrances shall be installed as shown and specified in the latest edition of "Virginia Erosion and Sediment Control Handbook."

3.2 INSTALLATION AND MAINTENANCE SEQUENCING

- A. Erosion and sediment control practices and measures shall be constructed prior to any land disturbing activity. They shall be maintained in accordance with the latest edition of "Virginia Erosion and Sediment Control Handbook" and local ordinances. They shall be removed only upon completion of all land disturbing activities.
- B. All disturbed areas including but not restricted to stock piles, dams, banks of sediment basins and temporary road banks left unprotected for more than 30 days shall be temporarily seeded at the CONTRACTOR'S expense. All disturbed areas shall be protected to control erosion and prevent sedimentation of adjacent properties, storm sewers and/or streams.
- C. Sediment control devices such as diversion berms, sediment traps, filter berms, vegetation stabilization, etc., shall be used to prevent off-site sedimentation at all times.
- D. All borrow and/or spoil materials shall only be stockpiled within the limits of the permitted site.
- E. The proposed grading shall not impair existing surface drainage, constitute a potential erosion hazard, or source of sedimentation to any adjacent property, drainage system or right-of-way.
- F. All points of construction ingress and egress shall be protected to prevent tracking of mud on the public streets.
- G. Storm drainage pipe discharges shall be diverted to temporary sediment traps. Rip rap aprons shall be constructed during sediment trap removal.
- H. Upon completion of all construction activities, and upon stabilizing all areas disturbed by construction activities, remaining temporary sediment control devices shall be removed. Silt fencing shall be installed downhill of sediment traps prior to their removal. Sediment trap areas shall be restored to pre-existing grades and stabilized prior to removing silt fencing.

- I. Upon removal of temporary erosion and sediment control features, the construction site shall be inspected for remaining disturbed areas. Stabilize any remaining disturbed areas.

END OF SECTION