

**ANNE ARUNDEL COUNTY  
ILLCIT DISCHARGE DETECTION  
AND ELIMINATION**

**2019 ANNUAL REPORT**

**PERMIT NUMBER MD0068306**

Prepared for:



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## 1 INTRODUCTION

Under its National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit #MD0068306, Part IV.E.3., Anne Arundel County is required to implement an inspection and enforcement program to ensure that all discharges to and from the municipal separate storm sewer system that are not composed entirely of stormwater are either permitted by the Maryland Department of the Environment (MDE) or eliminated. The requirements for the permit encompass five main components: field screening of a minimum of 150 storm drain outfalls annually, conducting routine surveys of commercial and industrial drainage catchments to find and eliminate pollutant sources, maintaining a program to address illegal dumping and spills, maintaining appropriate enforcement procedures for investigating and eliminating non-permitted discharges, and reporting of all discharge detection and elimination activities.

The County's program uses outfall field screening to locate illegal storm drain connections or other non-permitted dry-weather discharges through the municipal storm sewer systems. Versar, Inc. (Versar) has a contract with the County to perform the field screening. Where dry-weather effluent from municipal storm sewers is found, it is field-tested for certain indicator analytes. If test results indicate a potential illicit discharge, the program requires that the dry weather discharge be eliminated or permitted.

Within each area where field crews conduct dry-weather screening of outfalls, Versar teams also perform routine visual surveys of commercial and industrial drainage areas. Inspectors drive through each commercial and industrial area, looking for signs of pollution. If pollutant sources are present, the field team notifies the County of the possible infraction at the site; the County then reviews the conditions and considers possible enforcement actions.

The Anne Arundel County Department of Inspections and Permits (I&P) maintains an inspection and enforcement program for identifying, reporting, and eliminating non-stormwater discharges into the County storm drain system, which includes illicit dumping and spills. This program is complaint-based; complaints may be filed by the public, other County inspectors or departments, and the Versar team.

In the event of dumping, a spill, or an illegal connection, I&P corrects the situation or refers the matter to MDE for correction. If inspections identify food-waste-related concerns (e.g., overflowing or leaking dumpsters or grease collection facilities), the Anne Arundel County Department of Health corrects the situation. Both County agencies and MDE maintain appropriate enforcement procedures to ensure correction of these activities.

On July 9, 2018, MDE conducted a compliance audit of the County's IDDE program. The audit included a review of the County's storm drain system mapping, outfall screening prioritization, screening procedures, commercial and industrial watershed survey protocols, enforcement mechanisms, and a review of citizen outreach and the County's responses to illicit discharge complaints. In addition, MDE staff accompanied the County and its consultants on an outfall screening and commercial watershed visual survey to evaluate how procedures and protocols are implemented. During the field component of the compliance audit, no illicit

discharges were identified; however, two commercial sites were identified as upland pollutant sources. The enforcement results for those two sites are found in Table 5-1. The County provided follow-up items to MDE, including an update on the storm drain system mapping procedures and a description of the Compliance Case Manager complaint system that had been recently implemented at the time of the audit. County IDDE Standard Operating Procedures were refined to reflect the updated complaint system and subsequently submitted to MDE. Overall, MDE determined the County's IDDE program to be in compliance with the NPDES MS4 permit requirements.

This fiscal year (FY) 2019 IDDE report summarizes the outfall and commercial and industrial drainage catchment screening activities conducted by Versar field teams during the reporting period of July 2018 through June 2019. The report includes the County's compliance or enforcement updates from identified illicit discharges, upland pollutant sources, or structural issues reported during the 2019 reporting period. The report provides information on two specific County-requested investigations of a (1) prior illicit discharge site (Outfall O22O014) and (2) a suspected upland pollutant source to Rockhold Creek. A summary of the final resolution of complaints documented as unresolved during the previous reporting periods is also presented in this year's report.

## 2 METHODOLOGY

### 2.1 FIELD INVESTIGATION – OUTFALL INSPECTIONS

Dry-weather discharges from illegal sources have a higher likelihood of originating from commercial and industrial land uses (MDE, 1997). Each year, the Anne Arundel County NPDES MS4 Permit Coordinator, or a delegated staff member, coordinates with Versar to identify priority assessment areas in the County that should be investigated for possible illicit discharges to the stormwater system. The target areas frequently encompass unincorporated towns (e.g., Hanover, Odenton, Ferndale) and are bounded by major roadways or defining geographical features. Versar uses available digital data provided by the County and other sources, and Geographic Information System (GIS) tools to examine the area of concern and identify at least 150 specific outfalls to screen in the applicable survey period. The County targets a majority of the outfalls in commercial or industrial land use areas and the remainder in residential land use areas. The County may also request that field efforts include visits to outfalls to address complaints filed during the reporting period or revisits to outfalls that had exhibited illicit discharge during previous years' assessments to confirm illicit discharge elimination. By assessing a different area of the county each year, and returning to sites that exhibited possible illicit discharge conditions in previous survey periods, the County achieves an area-wide review of likely sources of dry-weather discharge throughout the permit period.

In 2014, the first year of the County's current NPDES MS4 permit, the County screened outfalls in the Hanover, Linthicum Heights, and Glen Burnie areas. In 2015, screening continued in these same geographic areas. In 2016, the County conducted outfall screening in the Maryland City, Odenton, Hanover, Severn, and Crofton areas. During 2017, the County screened outfalls in the north part of Route 2, north of Arnold, up to Route 100/Mountain Road (including Glen Burnie and part of Severna Park); Veterans Highway in the Millersville area; the County portion of Parole and Annapolis Town Center; and Bestgate Road. In 2018, the County conducted screenings in the areas near I-97 just south of I-695, near the intersection of Route 100 with I-97, along Route 3 south of Route 32, and south of U.S. Route 50. In 2019, the County returned to the area east of Route 2, generally between I-695 and U.S. Route 50. In 2020, the County will screen outfalls in the southern portion of the county (south of Route 214) and areas west of Route 175 in the western portion of the county. In addition, the County will revisit all locations that have shown positive evidence of illicit discharge dating back to the 2013 screening year.

During the 2019 screening effort, Versar staff used GIS desktop analysis to identify target outfalls with primarily commercial, industrial, and residential land uses in their catchments. To prepare for the field inspections, technicians used the Anne Arundel County's GIS data sets of storm drains and point features (e.g., outfalls, inlets, and manholes) to create maps for the target areas and specific sites. Field crews used these maps and relevant data in a differential Global Positioning System (GPS) unit to identify the extents of the local networks; the locations of outfalls and access points along each network; and the businesses, facilities, or neighborhoods within the drainage areas.

Field crews developed a coordinated plan to successfully screen at least 150 outfalls during the reporting period. The crews recorded water chemistry for flowing outfall discharges and



physical conditions of every screened outfall and its surrounding area on paper field forms. Crews documented additional details pertaining to each outfall in the “notes” section of the field sheets. Physical parameters documented for each outfall included structural condition, deposits, algae growth, vegetative condition, odor, and erosion; conditions documented at flowing outfalls also included floatables, color, and clarity associated with the discharge. Crews took photographs of each outfall to document conditions. The inspection methodologies for these physical parameters are presented below. For 2019, the field protocol specified the size criteria for outfall screening as at least a 12-inch pipe opening for systems draining commercial or industrial areas and a 36-inch opening for residential areas.

The field teams' assessments of the structural condition of each outfall involved inspecting the outfall pipe and outfall structure for cracking, spalling, stability issues, and pipe separations. Often, outfall pipes or structures can be damaged or impaired by large scour holes at the outfall or severe downstream channel erosion that undermines the storm drain outfall. Other conditions such as excessive debris or pipe corrosion can affect the structural integrity of an outfall. When field teams identified damaged outfalls or situations that could threaten the stability of the storm drain system, they documented the significant factors that were affecting the structural integrity of the storm drain pipe or outfall structure on the field data sheet for the most affected outfalls. Staff also reported structural issues to the Anne Arundel County Program Manager; the manager then notified the Infrastructure Management Division (IMD).

Deposits and stains present in an outfall may indicate the past discharge of a contaminant. If field crews observed significant deposits or staining at an outfall, they then investigated areas upstream in the network to determine the source.

Field crews documented whether algal growth was present at each outfall. The presence of algal growth may indicate the influence of nutrients or sewage in the discharge. If the crews found significant algal growth within the storm drain pipe or in the receiving channel, they attempted to identify the source or the contributing factors.

Vegetative condition is a physical parameter that may indicate the possibility of excessive nutrients that produce exaggerated growth patterns or chemicals and compounds in a discharge that harm or inhibit growth. If field crews found unusual vegetative conditions at a site, they attempted to determine the cause.

The field crews recorded whether they detected any odor at each screened outfall. If the crews perceived a rancid-sour, sewage, gas, or other strong odor at a site, they recorded its qualities on the field sheets. These odors may indicate an illicit connection or spill. If the crews detected these odors, they attempted to locate the source.

At each outfall, field crews inspected the banks of the channel leading away from the outfall for signs of erosion. Crews documented any significant erosion within 25 feet of an outfall.

If the field crews observed flowing water during a dry-weather screening, they inspected the discharge to determine the presence of floatables. The presence of floatables such as trash,

sewage, or oil sheen may be evidence of an ongoing illicit connection, poor housekeeping, or a recent spill. If the crews found significant floatables in the discharge, they attempted to identify the source.

The color and clarity of the discharge may indicate contaminants in the discharge. A cloudy or opaque discharge typically means that solids are suspended in the effluent. The color of a discharge can be a clue to help assess the composition of the discharge, including the presence of chemicals or sewage. If the field team found abnormal color or clarity, team members attempted to identify the source of a potential contaminant.

In some cases, outfalls were either completely or partially submerged as a result of changing deposition patterns at the outfall or in the downstream channel, or its position in a tidal area. When dry weather flow is observed in these situations, field crews attempted to collect flowing discharge samples from a storm drain structure in the network leading to the outfall, as close to the outfall structure as possible. Submerged conditions do not necessarily indicate a storm drain structural problem.

Field crews chemically tested dry-weather discharge from outfalls using Chemetrics color comparator test kits (for detergents, phenols, copper, chlorine, and ammonia), an Extech single analyte tester (for fluoride), and a YSI or *In-situ* multi-parameter sonde (for water temperature and pH). All field screening took place following a minimum of 72 hours of dry weather (i.e., less than 0.03 inches of rainfall). Crews compared the results of the screening tests to "action" criteria, as presented in Table 2-1, to determine which results should be considered abnormal and warrant further investigation (action) for possible illicit connections.

If the field teams determined that chemical conditions at an outfall resulted in any tested concentrations above the action thresholds, they revisited the site within 24 hours, but at least four hours after the first test, if feasible (e.g., rain events may delay the return visit). Field crews followed this protocol to account for any discharge anomalies, and to confirm the results of the chemical test conducted on the first visit.

Field crews indicated a possible illicit connection for any outfall with dry-weather flow that was found to have at least one parameter concentration above its corresponding action criterion (Table 2-1) during both inspections. Test results that only indicated a low pH reading, with all other parameters testing within acceptable limits, represented a unique, non-illicit condition. Conditions that could indicate possible illicit connections could also include situations where an observable pollutant had been discharged through a storm drain system, even if the system does not exhibit flowing effluent, or the discharge does not contain the pollutant at the time of the inspection.

To locate the source of potential illicit discharges that field crews identified from outfall screening, the crews traced the discharge through the storm drain network upstream. The tracking procedure included testing flows through manholes and inlets as necessary and practical until the source was identified, or the discharge could not reasonably be tracked further. Field teams documented evidence of illicit discharges, including the probable cause(s), with photographs.

Table 2-1. Analytes, testing ranges, and action criteria for dry-weather discharge screening in Anne Arundel County

Analyte	Effluent Type Indicated	Action Criterion	Minimum Detection Limit	Instrument Range	Kit or Probe
Chlorine (Cl)	industrial, tap water, sewage	$\geq 0.40$ mg/l <sup>(a)</sup>	0.05 mg/l	0 to 5 mg/L	Chemetrics color comparator
Copper (Cu)	industrial	$\geq 0.21$ mg/l <sup>(a)</sup>	0.05 mg/l	0 to 10 mg/L	Chemetrics color comparator
Phenols	dry cleaning	$\geq 0.17$ mg/l <sup>(a)</sup>	0.05 mg/l	0 to 12 mg/L	Chemetrics color comparator
Detergents*	sewage, washwater	$\geq 0.5$ mg/l (residential) <sup>(a)</sup>	0.15 mg/l	0.15 to 3 mg/L	Chemetrics color comparator
Ammonia	sewage	$\geq 1.0$ mg/l <sup>(b)</sup>	N/A	0 to 300 mg/L	Chemetrics color comparator
Fluoride	sewage, tap water	$\geq 0.75$ mg/l <sup>(c)</sup>	N/A	0 to 10 mg/L	Extech fluoride meter
pH	industrial washwater	$\leq 6.5$ or $\geq 8.5$	N/A	0 to 14	YSI sonde
Water Temperature	sewage	N/A	N/A	N/A	YSI sonde

<sup>(a)</sup> MDE 1997  
<sup>(b)</sup> CWP 2004, and Pitt 2004  
<sup>(c)</sup> Anne Arundel County 2011  
 \* Field test results may fall below instrument range when using color comparators

Versar staff prepared site-specific reports for each identified major storm drain structural issue found in the field and submitted them to the Anne Arundel County MS4 Program Manager. The Program Manager typically then shared the reports with the IMD to facilitate corrections for the damages. On occasion, structural issues have been identified for non-County owned infrastructure (e.g., State-owned). In those instances, the information was shared with the appropriate agency to facilitate further investigation.

Versar staff prepared and submitted reports of possible illicit connections identified in the field surveys to the Anne Arundel County MS4 Program Manager. The Program Manager then sent copies of the reports to I&P to initiate plans for additional site visits and inspections for these reported problems, and enforcement action as appropriate. In addition, the Versar staff call the Anne Arundel County Environmental Hotline (410-222-7171) to report the illicit discharge.

During the illicit discharge outfall investigations, the field teams may find storm drain outfalls that are not identified in the County’s latest digital version of its infrastructure network. In such cases, field teams record the outfall's location as documented by a GPS unit. The digital data set developed and submitted for each annual reporting period would include the locations of previously unmapped outfalls identified during the field investigations and confirmed and accepted by the County staff. The unmapped outfalls may be privately owned infrastructure not recorded by the County, State-owned infrastructure located immediately adjacent to a County outfall, or a pipe outfall that is part of a multi-barrel endwall where the endwall would have an outfall number instead of the individual pipes. Versar provides the locations of any undocumented outfalls so identified to the County for review. If any new structure is approved by County staff, the feature is assigned a valid identification number and added to the County’s digital version of the infrastructure network.

## 2.2 FIELD INVESTIGATION – ROUTINE SURVEY OF COMMERCIAL AND INDUSTRIAL DRAINAGE CATCHMENTS

During the 2019 survey period, field teams conducted routine visual surveys of the drainage areas of commercial and industrial facilities in the general areas noted above to search for signs of polluting activities. These efforts were intended to help the County discover and eliminate any upland pollutant sources. Versar staff used GIS tools (e.g., digital land cover data sets and aerial photography) to identify areas depicting commercial and industrial land uses to facilitate the surveys of these properties. Field crews inspected commercial or industrial properties in the designated areas to document upland pollutant sources and polluting activities. Upland pollutant source identification includes evidence of spills or dumping, poor housekeeping, poor maintenance of drainage systems, or other polluting activity not approved by a valid MDE permit. If field teams identified any upland pollutant source, they recorded the evidence on field data sheets and documented the conditions with photographs.

Versar teams reported evidence of upland pollutant sources to the Anne Arundel County MS4 Program Manager. The Program Manager then typically sent copies of the reports to I&P or the Health Department, as appropriate, to initiate plans for correction. Versar prepared and submitted site-specific reports for any conditions that the field teams determined required further investigation or correction, based on observations documented during the surveys.

As part of the County's program to address spills and illegal dumping, the County provides a means to receive complaints from residents to assist in identifying possible problems during regular field activities. The Department of Inspections & Permits maintains a 24-Hour Environmental Hotline for citizens to report environmentally related complaints including spills and illegal dumping into the County storm drain system. The Hotline has been available since 1988 and has been advertised in numerous ways including on the County webpage: [www.aacounty.org/departments/inspections-and-permits/environmental-programs](http://www.aacounty.org/departments/inspections-and-permits/environmental-programs). In addition, the County webpage provides a link for citizens to submit on-line requests for investigation of environmental concerns or any other observation or issue of concern: [www.aacounty.org/services-and-programs/report-a-concern](http://www.aacounty.org/services-and-programs/report-a-concern). This on-line reporting interface is in addition to the options for reporting concerns and issues through the mobile app [SeeClickFix.com](http://SeeClickFix.com)© (SeeClickFix, Inc., 2008-2017) and by dialing 311.

## 2.3 DATA ENTRY

Versar staff performed a quality review of the outfall inspection field sheets and transferred applicable information from the successfully screened outfalls to a data table that has records, fields, and values that conform to the format required by MDE. Appendix E of this report contains a digital version of this table; a duplicate copy of the table (as *IDDE*) is included with the FY2019 MS4 geodatabase, which accompanies the 2019 MS4 Annual Report, in which this IDDE report is included. The data table includes the data recorded during the first and second visits to each site during the reporting period as separate records, where applicable.

### 3 RESULTS

#### 3.1 PHYSICAL FINDINGS

Versar field teams identified locations where physical issues significantly affected stormwater infrastructure within the targeted areas of Anne Arundel County during the 2019 reporting period; Versar staff reported eight of these conditions to the County (Table 3-1). Appendix A contains site-specific reports relevant to these eight findings. A map in Appendix D shows the locations of the reported infrastructure concerns.

Location	Town	Outfall ID	Inspection Date	Issue
Locust Cove Road vicinity	Pasadena	N/A	12/11/2018	collapsed infrastructure
1003 Via Amorosa	Arnold	S14O014	02/05/2019	collapsed infrastructure
Ring Road vicinity	Arnold	S15O022	02/05/2019	collapsed infrastructure
587 East Ordnance Road	Glen Burnie	N/A	04/18/2019	collapsed infrastructure
610 East Ordnance Road	Glen Burnie	N/A	04/18/2019	damaged infrastructure
349 Gatewater Court	Glen Burnie	O06O006	05/22/2019	collapsed infrastructure
Curtis Court vicinity	Glen Burnie	O04O005	05/22/2019	collapsed infrastructure
McLean Way	Glen Burnie	N04O045	05/22/2019	unsupported infrastructure

#### 3.2 CHEMICAL FINDINGS

Of the 154 outfalls successfully screened by Versar crews, 59 had dry-weather flow during the initial site visit. Of the screened outfalls exhibiting dry-weather flow during the initial screening, seven yielded a result above the action criteria limit for one or more of the tested contaminants (this summary does not include those test results where pH was the only parameter with levels outside of the acceptable range). Field crews re-screened each of these seven outfalls and, of those, five had concentrations that were above at least one action level when re-tested (Table 3-2). Two of the re-screened sites did not have readings that exceeded the criteria on the second visit. Appendix B contains site-specific reports for the five re-tested outfalls that staff identified as having potential illicit discharges, as validated by two consecutive qualifying chemical test results above the action levels. Appendix B also contains a site report that presents the findings of a site visit to Outfall O22O014 (March 13, 2019), requested by the County, to investigate a possible illicit discharge. For the protocol, the County has determined that low pH results are likely due to natural causes (e.g., groundwater) and a source need not be further investigated. As such, the Appendix does not include site-specific reports for the two sites for which pH readings were the only tested values out of range. A map in Appendix D shows the locations of the five sites that exhibited potential illicit discharges, according to the protocol, during the reporting period.

Appendix E contains an MDE-program-compliant data table which includes records from successful outfall screenings during the 2019 reporting period. The data set structure includes a separate record for each visit to each outfall that was successfully screened.

Table 3-2. Potential illicit discharges identified in field inspections during the 2019 reporting period, based on results from re-tests									
Outfall	Date of Test	Test Order	Chlorine (mg/l)	Copper (mg/l)	Phenols (mg/l)	Detergents (mg/l)	Ammonia (mg/l)	Fluoride (mg/l)	pH
T15O031	02/05/2019	Initial	0	0	0	0	7	0	7.05
	02/06/2019	Re-test	0	0	0	0.1	7	0	7.24
T16O006	03/07/2019	Initial	<b>0.6</b>	0	0	0	0	0.59	8.12
	03/08/2019	Re-test	<b>0.6</b>	0	0	0	0	0	8.47
U16O010	03/07/2019	Initial	<b>0.8</b>	0	0	0.1	0.15	0	7.58
	03/08/2019	Re-test	<b>0.8</b>	0	0	0	0	0	7.56
S07O017	04/24/2019	Initial	0	0	0	0.15	1	0	7.74
	04/25/2019	Re-test	0	0	0	0	1	0	7.32
S10O009	04/24/2019	Initial	0	0	0	0.1	1.5	0	7.77
	04/25/2019	Re-test	0	0	0	0.1	1	0	7.33

**Bold** = Exceeds action criterion threshold

### 3.3 UPLAND POLLUTANT SOURCE FINDINGS

Versar field crews identified nine upland pollutant sources during the routine survey of the commercial and industrial sites within the targeted areas of Anne Arundel County. The crews documented concerns with solid and liquid waste management associated with business activities; the crews did not observe active washing activity during the surveys in the 2019 reporting period. Table 3-3 provides a summary of the results of the upland pollutant source investigations. Appendix C contains site-specific reports on these sites (Appendix C also includes a special report of a possible pollutant source investigated by County request in July 2019, which occurred outside of the reporting year). A map in Appendix D shows the locations of the nine upland pollutant sources identified during the surveys conducted during the FY2019 reporting period and the site investigated for a pollutant source in July 2019 (FY2020).

**Table 3-3. Summary of upland pollutant source findings identified during the 2019 reporting period, and a special investigation in July 2019 (FY2020)**

Address	Town	Business Name	Inspection Date	Poor House-keeping (solid waste)	Poor House-keeping (liquid waste)
302 H.S. Truman Parkway	Annapolis	Katana Japanese Cuisine	07/09/2018		X
302 H.S. Truman Parkway	Annapolis	Royal Karma	07/09/2018	X	X
350 Mountain Road	Pasadena	Food Lion	11/01/2018		X
25 Magothy Beach Road	Pasadena	Passion Asian Bistro	12/06/2018		X
31 Magothy Beach Road	Pasadena	Ledo Pizza	12/06/2018		X
3201 Mountain Road	Pasadena	Not determined (multiple)	02/06/2019	X	
1320-1396 Cape St. Claire Road	Arnold	Vizzini's Pizza 'N Sub	03/08/2019		X
8457 Fort Smallwood Road	Pasadena	N/A (abandoned)	04/0242019	X	
Waterview Court	Glen Burnie	N/A (residential)	05/23/2019		X
Deale Place and Park Place*	Deale	N/A (residential)	07/10/2019		

\* This investigation occurred outside of the FY2019 reporting year, and the pollution source was natural (wildlife droppings)

In early July (FY2020) Anne Arundel County requested a specific site visit to the intersection of Deale Place and Park Place, in Deale, MD, to investigate a potential upland pollutant source to an area of Rockhold Creek. The site visit did not reveal any dry weather flow to County infrastructure that would constitute an illicit discharge. A visual survey of the area identified the heavy presence of waterfowl (approximately 45 geese) and waterfowl droppings at the edge of a cove to Rockhold Creek, and the investigative team surmised that these waterfowl were the source of the reported pollution (bacteria). The County subsequently deployed a wildlife camera to this area and, over the period of a week, documented numerous geese and ducks as well as other wildlife nesting in and frequenting this riparian area. This information, combined with water quality monitoring of Rockhold Creek, resulted in the conclusion that the resident wildlife was the pollutant source. Additional information regarding the water quality monitoring for this effort can be found in the County’s FY2019 Bacteria TMDL Annual Implementation Assessment Report submitted to MDE as an appendix to the FY2019 NPDES MS4 Annual Report.

## 4 SUMMARY AND CONCLUSIONS

In support of Anne Arundel County's NPDES permit requirements (Condition IV.D.3.a, Illicit Discharge Detection and Elimination, NPDES municipal stormwater permit #MD0068306), Versar field crews successfully screened 154 outfalls for the 2019 reporting period. Appendix E contains an MDE-program-compliant data table that presents the results of these visits. Table 4-1 contains a summary of the physical and chemical parameters evaluated in the initial outfall screenings during the period (flowing and not flowing conditions). Note that the table includes the presence of constituents where noted, not just those samples in which the concentrations exceeded criteria.

Table 4-1. Summary of conditions evaluated during initial outfall inspections performed during the 2019 reporting period	
Condition	Number of Outfalls
Observable Flow	59
Chlorine present	13
Detergents present	46
Ammonia present	17
Fluoride present	9
Excessive vegetation	5
Algae growth	32
Cloudy water	1
Opaque water	0
Outfall damaged or buried	7
Concrete cracking	4
Concrete spalling	3
Sediment deposits	49
Submerged outfall (incl.	12
Moderate erosion	10
Severe erosion	1
Oil sheen	4
Trash present	6
Oil/Gas/Sulfur/Sewage odor	0
Rancid/sour odor	0
Other than clear color	3
Note: Some sites had multiple findings; this may result in an overall total greater than 154.	

Versar field crews reported eight stormwater structures exhibiting major structural or erosion problems within the targeted areas of Anne Arundel County during the 2019 reporting period. Appendix A contains details of these findings.

Of the outfalls containing dry-weather flow which were screened by Versar within the targeted areas of Anne Arundel County, five yielded results above the action criteria for tested



contaminants in two successive screenings during the 2019 reporting period. Appendix B contains details of these findings. Appendix B also contains a special report that presents the findings of a site visit requested by the County, to investigate a possible illicit discharge. Samples which only exhibited pH levels below the action criterion, and no other contaminants at action levels, are not included in the set of conditions reported to the County, as the County has clarified that low pH likely reflects a naturally occurring state.

As required in Condition IV.D.3.b, the field program included investigations of commercial and industrial sites in the target areas to determine if any upland pollutant sources were present. Field teams identified nine upland pollutant sources during these surveys for the 2019 reporting period. Appendix C contains details of these findings.

As required by Conditions IV.D.3.c and d, Anne Arundel County used appropriate enforcement procedures to correct any illicit discharge, upland pollutant source, spill, or illegal dumping activities identified within the County. The Corrections and Enforcement Actions section of this report describes follow-up actions in further detail for the problems identified during the illicit discharge inspections and routine survey of commercial and industrial drainage catchments. See Tables 5-1 and 5-2, and Appendix F for these details.

The County's illicit discharge detection and elimination program has been successful in the identification and removal of a wide variety of sources of pollutants, including illicit connections, upland pollutant sources, dumping, and spills. At this time, no recommendations are being made for improvements to the program.

## 5 CORRECTIONS AND ENFORCEMENT ACTIONS

Table 5-1 details all illicit discharge, upland pollution, and infrastructure concerns arising from the permit-required dry-weather screening of outfalls and routine visual surveys of commercial and industrial drainage areas during the reporting year. In addition, Table 5-1 may include cases referred to the County from other government agencies (e.g., MDE, EPA), or concerns that are discovered internally by WPRP staff. In FY2019, one illicit discharge concern discovered during routine maintenance of a stormwater monitoring station and two upland pollution concerns discovered by WPRP staff are also included in Table 5-1. Table 5-2 contains details of FY19 enforcement actions taken on previously unresolved IDDE program cases. Documentation of additional FY19 complaints received by I&P, related to potential illicit discharges, dumping, and/or spills, are found in Appendix F.

As is presented in Table 5-1, significant findings from field investigations were sent to the responsible authorities for action. Site specific reports of potential illicit connections and upland pollutant sources (e.g., leaking or overflowing dumpsters) identified during the investigations for the FY 2019 reporting period went to either I&P or to the County Health Department. Structural issues were forwarded to IMD to determine ownership of the infrastructure; then, either IMD or I&P would respond, depending on their areas of responsibility. The IMD or I&P Departments then addressed the problems based on whether the infrastructure was publicly or privately owned, respectively. Occasionally, complex cases were not resolved in time for a particular year's report; such cases are typically reported as unresolved. Table 5-2 provides details regarding the resolution of cases described in previous reporting years.

The Anne Arundel County Department of Inspections and Permits applies a phased approach to eliminating and enforcing illicit storm drain discharges. Phase 1 Enforcement consists of a Violation Notice sent by first class and certified mail to the property owner. The Phase 1 Violation Notice includes an explanation of the violation and requests a written commitment to immediately cease the illicit discharge. Upon written receipt of the commitment to comply, the Department monitors the site for up to 60 days. If compliance is maintained, the violation is considered abated. Should the Department fail to receive written commitment to comply, or if further violations are observed, the Department proceeds to Phase 2 Enforcement. At the Phase 2 Enforcement level, the Department posts a Stop Work Order on the property and issues a \$1000 civil citation to the property owners. The civil citation must be paid and the violation abated or the civil citations are litigated in court.

In response to the NPDES MS4 Permit-required outfall screenings and visual watershed surveys, as well as WPRP staff findings, the County opened 26 compliance cases related to IDDE concerns in FY2019, 19 of which were resolved by the end of the fiscal year. One (1) upland pollution case and five (5) infrastructure concern cases remain unresolved at the end of FY2019. Table 5-1 details the enforcement actions and resolutions associated with these compliance cases. Zero compliance cases opened during the previous reporting years remained unresolved at the end of FY2019 (Table 5-2).

Of note, the FY2019 illicit discharge case concerning outfall R20O017 at the Parole Plaza MS4 stormwater monitoring station remained unresolved at the end of the reporting period. This

investigation was initiated near the end of the fiscal year and, thus, was not resolved before July 1, 2019. Although this case is listed in Table 5-1, the complete investigation report and correction/resolution will be documented in the FY2020 Illicit Discharge Detection and Elimination Program Annual Report. Additionally, the upland pollution source investigation in Deale (Rockhold Creek) was initiated at the beginning of FY2020. Because this investigation was settled within the month, it is included in Table 5-1 and the site report is found in Appendix C.

During FY2019 the County handled an additional 20 environment section complaints. Details of these complaints and County staff actions are provided in Appendix F, which contains inspection compliance database reports from the I&P Case Manager Complaint Tracking System for illicit connections, upland pollutant sources, or environmental hotline complaints relevant to this report. These reports detail County efforts in determining if remediation is necessary and what subsequent action was taken.

**Table 5-1. FY2019 Illicit Discharge Detection and Elimination Program: Investigative activities and follow up actions.**

ILLCIT DISCHARGES					
Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
February 5-6, 2019	E-2019-78	T15O031 288 Yale Ct Arnold, MD	<p>On February 5, 2019, a Versar field team inspected outfall T15O031 behind the residence at 398 Kings College Drive, in Arnold, MD. On this first field visit, Versar staff found flowing discharge at the 36-inch reinforced concrete pipe outfall. The crew noted that the effluent was clear and odorless. There was evidence of iron flocculent in the plunge pool. The crew obtained a sample of the discharge at the mouth of the outfall, to test for illicit discharge indicators. The result for ammonia (7 mg/L) was above the acceptable range.</p> <p>The field team returned on February 6 and assessed conditions at the outfall. The team did not observe a color or odor in the discharge. The crew collected a sample of the discharge at the pipe opening. The test results indicated an ammonia level of 7 mg/L; other parameter results did not exceed criteria.</p> <p>The crew conducted a trackdown after the second result demonstrated elevated levels of ammonia. At a private driveway at 288 Yale Court, the crew observed a hose that was draining a backyard pool and discharging to the street. The crew obtained a sample of the water from the hose to test for ammonia. Test results for the sample collected at this location indicated an ammonia level of 13 mg/L. Staff reported the illicit discharge to the pollution hotline on February 6, 2018 and to County DPW staff via e-mail on the same day.</p>	<p><b>February 6, 2019:</b> Versar reported illicit discharge to County’s pollution phone hotline as well as to WPRP staff via e-mail.</p> <p><b>February 6, 2019:</b> WPRP staff referred complaint to I&amp;P for further investigation.</p> <p><b>February 7, 2019:</b> I&amp;P staff investigated, observed, and video recorded owner of 288 Yale Ct actively discharging pool water into street in front of property. I&amp;P staff informed property owner that he must cease discharging immediately and advised property owner that a dechlorination device must be used for any further discharge of pool water. I&amp;P staff will continue to monitor the property.</p> <p><b>March 5, 2019:</b> No discharge observed during continued monitoring of site.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>

ILLICIT DISCHARGES					
Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
March 8, 2019	E-2019-146	U16O010 1556 Star Pine Dr. Annapolis, MD	<p>On March 7, 2019, at 1:50 p.m., a Versar field team inspected outfall U16O010. The drainage area for the outfall includes the full extent of Star Pine Drive and several side streets attached to it; the land use in this area is residential. The outfall is located to the southwest of the west end of Wood Hollow Court. At the 42-inch reinforced concrete pipe opening of the outfall, the team observed flowing conditions; the team collected a sample of the flowing water from the pipe to test water quality. Test results show an above-action-level concentration of chlorine (0.8 mg/L).</p> <p>The Versar team returned to the site at 11:20 a.m. on March 8 and found higher flow conditions at the outfall compared to those observed the previous day. The team collected a sample of water flowing from the pipe for testing. The concentration for chlorine (0.8 mg/L) was again above the program's action level. Based on these results, the team called the County Hotline to report the conditions.</p> <p>The field team conducted a trackdown to identify the source of the illicit discharge. The team followed the course of the pipe network and observed that the flow originated near a fire hydrant and several water main access ports in front of 1556 Star Pine Drive.</p>	<p><b>March 8, 2019:</b> Versar notified WPRP staff and I&amp;P staff of confirmed elevated chlorine readings at referenced outfall. Versar also reported conditions to the County environmental hotline.</p> <p><b>March 12, 2019:</b> WPRP staff reported the suspected potable water leak to the County's Bureau of Utility Operations Water Line Maintenance division for further investigation.</p> <p><b>March 13, 2019:</b> I&amp;P performed a visual observation of the surrounding storm drain inlets and nearby out fall and did not see any sign of an illicit discharge and or liquid coming out of the storm drain. Inspector will attempt to set up a field meeting with Versar in regards to this situation and he will request that they perform a field test for him.</p> <p><b>April 11, 2019:</b> Follow-up investigation. Leak could not be located.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>

ILLCIT DISCHARGES					
Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
March 7 &8, 2019	E-2019-164	T16O006 37 Church Rd Arnold, MD	<p>On March 7, 2019, at 10:30 a.m., a Versar field team inspected the outfall, T16O006. The drainage area for the outfall includes the eastern part of the parking lot for the Safeway grocery store (1451 S. Ritchie Highway), the short stretch of Arnold Road, and part of Church Road. There is an Exxon gas station lot (1501 Ritchie Highway) across Arnold Road from the Safeway parking lot. The outfall is located to the east of the residential lot at 37 Church Road. At the 24-inch reinforced concrete pipe opening of the outfall, the team observed flowing conditions; the team collected a sample of the flowing water from the pipe to test water quality. Test results show an above-action-level concentration of chlorine (0.6 mg/L). The team noted an oil sheen on the discharge and trash in the plunge pool area.</p> <p>The Versar team returned to the site at 10:30 a.m. on March 8 and found higher flow conditions at the outfall compared to those observed the previous day. The team collected a sample of water flowing from the pipe for testing. The concentration for chlorine (0.6 mg/L) was again above the program's action level. Based on these results, the team called the County Hotline to report the conditions.</p> <p>The field team conducted a trackdown to identify the source of the illicit discharge. The team followed the course of the pipe network across Church Road and determined that the highest visible flow was observed at the inlet on the southeast corner of the Safeway parking lot. The source of the suspected illicit discharge could not be ascertained. This junction receives overland flows from the parking lot and piped drainage from Arnold Road and a portion of Church Road immediately south of the intersection with Arnold Road. The crew also noted that the feature in the County's digital infrastructure depicting a pipe along the south rim of the parking lot — draining the southwest corner — was not connected to the east side of the lot (the inlet on the southwest corner of the lot drains to the southeast from that location).</p>	<p><b>March 8, 2019:</b> Report received by WPRP from Versar.</p> <p><b>March 11, 2019:</b> Complaint forwarded to I&amp;P for investigation.</p> <p><b>March 12, 2019:</b> Investigated by I&amp;P. Source of leak could not be found. Will revisit tomorrow.</p> <p><b>March 12, 2019:</b> I&amp;P inspector contacted Bureau of Utilities superintendent, who reported that they have been trying to find the source of this leak for many years, with no success.</p> <p><b>March 13, 2019:</b> Continued investigation by I&amp;P. Inspector could not locate source of leak. Inspector stated that this particular leak has been an ongoing issue for nearly a decade. Bureau of Utilities has spent thousands of dollars and numerous man hours unsuccessfully attempting to find the source or potable water.</p>	<p><b>RESOLVED</b></p> <p><b>CASE CLOSED</b></p>

**ILLICIT DISCHARGES**

Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
March 13, 2019	E-2019-162	O22O014 510 Hoot Owl Road Riva, MD	<p>On March 13, 2019, a Versar field team inspected outfall O22O014 at the end of Hoot Owl Road, in Riva, MD, as requested by Anne Arundel County staff (as a revisit from a screening in 2018). The Versar crew found flowing discharge at the 66-inch-wide oval-shaped reinforced concrete pipe outfall. The crew noted that the effluent was yellow and odorless. The crew obtained a sample of the discharge at the mouth of the outfall, to test for illicit discharge indicators. No parameters exceeded program thresholds.</p> <p>Near the inlet immediately up-network from the outfall, the field team observed a hose that was draining a backyard pool and discharging to the street. The crew obtained a sample of the discharge water at the inlet. The test results indicated detergent level of 1.0 mg/L and an ammonia level of 2.0 mg/L; other parameter results did not exceed criteria. Staff reported the potential illicit discharge to the Anne Arundel County environmental hotline on March 13.</p>	<p><b>March 13, 2019:</b> Versar notified County environmental hotline, I&amp;P, and WPRP staff of potential illicit discharge incident.</p> <p><b>March 13, 2019:</b> I&amp;P conducted an inspection in response to complaint. No water was observed discharging the site. A slight white color was observed in the driveway. The homeowner was not home at the time of the inspection. A door hanger was left on the front sliding glass door, and a business card was left on the side gate to the yard with "Please give me a call" written on the back. The homeowner called at 2:59 and stated that she was pumping water from the top of the pool cover. The pool has not been treated since they shut it down for the winter.</p> <p><b>March 19, 2019:</b> I&amp;P contacted homeowner to follow up on the complaint. The owner called back and stated that she rarely pumps water from her pool cover. She stated that it was a new pool cover but she believed that water from the pool may be mixing with rainwater before pumping. I&amp;P Inspector explained that high levels of ammonia and detergents were found in the water that she was pumping. Inspector advised homeowner to test her water before discharging any water into the storm drain. Homeowner agreed to test the water before pumping in the future.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>

ILLCIT DISCHARGES					
Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
April 24 & 25, 2019	E-2019-308	S10O009 33 Magothy Beach Rd (SE of Lakeshore Plaza) Pasadena, MD	<p>On April 24, 2019, at 12:00 p.m., a Versar field team inspected outfall S10O009. The drainage area for the outfall includes the full extent of Lakeshore Plaza Shopping Center, and some adjacent portions of Mountain Road; the land use in this area is commercial. The outfall is located southeast of Lakeshore Plaza Shopping Center, and discharges to a wet pond. At the 54-inch reinforced concrete pipe opening of the outfall, the team observed partially submerged conditions and a strong manure odor. The team collected a sample from deep within the pipe to test water quality. Test results showed an above-action-level concentration of ammonia (1.5 mg/L).</p> <p>The Versar team returned to the site at 9:50 a.m. on April 25 and collected a sample of water from the pipe for testing. The concentration for ammonia (1 mg/L) was again above the program's action level. Based on these results, the team called the County Hotline to report the conditions.</p> <p>The field team conducted a trackdown to identify the source of the illicit discharge. The team followed the course of the pipe network and observed strongly flowing water in some of the inlets in the network. The team obtained samples from several inlets and found ammonia concentrations of 0.75 or 1 mg/L. The team tracked flowing water in two main lines of the system and ammonia in the line from the north. The highest flow in the system was in the pipe coming from the direction of the Hardee's restaurant; a test on the sample collected from the receiving inlet did not indicate a detectable level of ammonia. The team also observed that a 3 inch pipe with flowing effluent connected to the network from the direction of the Grease N' Go business (this feature is not part of the digital data); a test on the effluent did not indicate the presence of ammonia. Based on the results of the observations documented at access points in the network, the team surmised that the ammonia source emerged between Mountain Road and the inlet at the southwest corner of the part of the lot occupied by the Friendly's restaurant.</p>	<p><b>April 26, 2019:</b> Complaint received by WPRP from Versar.</p> <p><b>April 29, 2019:</b> Case referred to I&amp;P for further investigation.</p> <p><b>April 30, 2019:</b> Investigated by I&amp;P. Outfall (S10O009) was partially submerged with no flow. A sample was taken from the area in front of the outfall and tested for ammonia. Tested for ammonia, results were 0 mg/L. Will follow up in 24 hours.</p> <p><b>May 1, 2019:</b> Follow up investigation by I&amp;P. The pond elevation was above the invert of the inflow pipes. A sample was taken from the pond and tested negative for ammonia.</p> <p><b>May 22, 2019:</b> An on-site meeting was to occur on Tuesday (May 21, 2019) with Versar and inspector Gills and Bradley. However, there was a rain event within 72 hours before the meeting. Therefore, no sampling occurred at this site on May 21, 2019. Inspector Gills and Bradley will monitor the site and rainfall to try to obtain another sample.</p> <p><b>June 28, 2019:</b> Follow-up inspection by I&amp;P. Inspector sampled the outfall location and found that there was ammonia present. The level was 0.2, below the action level for ammonia.</p> <p><b>July 8, 2019:</b> Follow-up inspection by I&amp;P. Inspector sampled the outfall location and found that there was ammonia present. The level was 0.4, below the action level for ammonia.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>



ILLICIT DISCHARGES					
Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
April 24 & 25, 2019	E-2019-309	S07O017 E of Carroll Road Riviera Beach, MD	<p>On April 24, 2019, at 10:00 a.m., a Versar field team inspected the outfall, S07O017. The drainage area for the outfall includes the full extents of Meadow Road and Dale Road, several side streets attached to them, and portions of Riviera Drive; the land use in this area is mixed commercial, residential, and open space (Riviera Beach Community Park). The outfall is located to the east of Carroll Road, approximately 320 feet northeast of the intersection with Fort Smallwood Road. At the 48-inch reinforced concrete pipe opening of the outfall, the team observed submerged conditions (Figure 1); the team collected a sample of odorless flowing water from the nearest accessible inlet, on Carroll Road, to test water quality. Test results show an above-action-level concentration of ammonia (1 mg/L).</p> <p>The Versar team returned to the site at 8:20 a.m. on April 25 and collected a sample of water flowing from the same up-network inlet for testing. The concentration for ammonia (1 mg/L) was again above the program's action level. Based on these results, the team called the County Hotline to report the conditions.</p> <p>The field team conducted a trackdown to identify the source of the illicit discharge. The team followed the course of the pipe network and observed stagnant water in the next accessible inlet, on the southeast side of Meadow Road. The team obtained a sample from this inlet and documented that the water had a sewage odor. The concentration for ammonia in the test result for this sample was 1.5 mg/L. The team considered the locations of the two samples, relative to a nearby pumping station, and adjacent to a sanitary sewer line; it is possible that the elevated ammonia concentration may be an indication of sewage intrusion into the stormwater system at this location.</p>	<p><b>April 26, 2019:</b> Complaint received by WPRP from Versar.</p> <p><b>April 29, 2019:</b> Case referred to I&amp;P for further investigation.</p> <p><b>April 30, 2019:</b> Investigated by I&amp;P. Ammonia test results at the outfall were negative. Will follow up in 24 hours.</p> <p><b>May 3, 2019:</b> Follow up investigation by I&amp;P. Steady low flow coming from outfall pipe observed. Samples tested negative for ammonia.</p> <p><b>May 21, 2019:</b> I&amp;P staff met with Versar staff to conduct a re-inspection. Discharge at the inlet tested positive for ammonia. Pipe was traced back to the next SWM manhole, which also tested positive for ammonia. There is a nearby sewage pumping station. I&amp;P Inspector contacted AACO Utility Dispatch; in turn a crew was dispatched who then took a water sample that tested positive for ammonia. After receiving the lab results, I&amp;P Inspector requested that a follow up visit and or a Utilities repair crew look further into this possible sewage leak. This site will continue to be monitored.</p> <p><b>June 27, 2019:</b> After investigating this site over the past month and continuously monitoring it 2-3 times per week, inspector could not find the source of any illicit discharge. Utilities also conducted an inspection and sent out an E_CREW. Utilities could not find a sewer leak but did test water from a storm drain which tested positive for high ammonia levels. Inspector is closing this complaint. Inspector will drive by this site and continue to check on it to see if discharge can be observed. High ammonia levels can sometimes stem from fertilizer, mulch or dead carcass. At this time, I&amp;P is not 100% sure of the source resulting in high ammonia levels</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>

ILLICIT DISCHARGES					
Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
June 26, 2019	E-2019-492	R200017 Forest Dr. and Solomons Island Rd Annapolis, MD	<p>While gathering a baseflow sample and performing maintenance at the Parole Plaza MS4 stormwater monitoring station, Versar staff observed discolored and odorous water actively discharging from the reinforced concrete pipe behind the Outback Steakhouse on Forest Drive. The team collected a sample for testing. While the sample did not test positive for pollutants, the team noted that the fluoride level was slightly elevated. This is not the first observed incident of this occurring at this location.</p> <p><i>*The Illicit Discharge Site Visit Report for this incident is not included in Appendix B of this report. A full site visit report for this incident will be included in the FY2020 Illicit Discharge and Detection Program Annual Report.</i></p>	<p><b>June 26, 2019:</b> Complaint received by WPRP from Versar.</p> <p><b>June 26, 2019:</b> Investigated by I&amp;P and WPRP staff. Black water was observed discharging from the outfall. While tracing flow back through the system, Inspector observed black water discharging from a pipe into inlet R20I082. Inspector noticed pressure washing activities inside the parking garage at 217 Harker Place, located across Forest Dr from outfall R20O01. The pressure washing crew was washing the floors and walls of the interior of the parking garage and had placed a screen and PIG Oil-Only maintenance absorbent sock around the inlet on level 2. A PIG sock appeared to be removed from the inlet on the next level up and a shovel and broom were observed near the inlet. Numerous inlets were left uncovered. Black water was observed on multiple levels of the parking garage leaking from the ceiling as well as pooling on the floor. Inspector told crews to cease operations immediately. After pressure washing had ceased, discharge at outfall R20O017 decreased significantly. Inspector spoke with pressure washing crew leader as well as parking garage property manager, who agreed that pressure washing activities will stop until a wastewater capturing system is in place or a connection to the County's sewer system is approved and established. Will continue to monitor.</p> <p><b>CASE OPEN</b></p>	<b>UNRESOLVED</b>

**UPLAND POLLUTANT SOURCES**

<b>Survey Date</b>	<b>I&amp;P Compliance Database ID</b>	<b>Outfall/Site Address</b>	<b>Issue</b>	<b>Response</b>	<b>Status</b>
July 9, 2018		302 Harry S. Truman Parkway Annapolis, MD	During the July 9, 2018 MDE field audit, and while investigating commercial establishments as part of a demonstration exercise for that field audit, a Versar team found signs of improper cooking oil storage and possible washdown or dumping activity associated with the business, Katana Japanese Cuisine, at the address shown above. The business shares a lot with other establishments in the shopping center. The team investigated the site at 2:00 p.m. on Monday, July 9. The team found a kitchen waste grease container on the lot at the rear of the building. The team noted that the pavement around the bin was stained, indicating insufficient care by staff during transfer of grease. The team also noted an adjacent area of the pavement that exhibited stains extending from a loading dock door. The staining patterns suggested previous washdown or dumping activity.	<p><b>July 13, 2018:</b> Report received by WPRP from Versar.</p> <p><b>July 13, 2018:</b> Report referred to Health Dept. for investigation.</p> <p><b>November 2, 2018:</b> Investigated by Health Dept. Inspector observed much improved housekeeping, new dumpster in place. Small amount of old caked-on grease/other residue observed. Facility requested to remove grease. Re-inspection scheduled for 11/16.</p> <p><b>November 19, 2018:</b> Re-inspection by Health Dept. confirmed dumpster/grease bin area is being maintained.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>
July 9, 2018		302 Harry S. Truman Parkway Annapolis, MD	While investigating commercial establishments as part of a demonstration exercise with Anne Arundel County and Maryland Department of the Environment staff, a Versar team found signs of improper cooking oil storage and waste management associated with the business, Royal Karma, at the address shown above. The business shares a lot with other establishments in the shopping center. The team investigated the site at 1:58 p.m. on Monday, July 9. The team found two kitchen waste oil drums on the lot near the rear entrance for the business. The team documented that the pavement around the drums was stained; this suggests spills by staff while transferring oils, or leaks from the drums. The stains from the drums mingled with stains near the base of the adjacent dumpster. The pattern of the stains near the dumpster showed distinct dark, shiny patches along the edge and near the corner; this suggests that the dumpster (or dumping activities) is a separate source of contaminant input to the lot. The dark stains also suggest that both sources may contain oils.	<p><b>July 13, 2018:</b> Report received by WPRP from Versar.</p> <p><b>July 13, 2018:</b> Report referred to Health Dept. for investigation.</p> <p><b>November 2, 2018:</b> Investigated by Health Dept. Inspector observed much improved housekeeping, Small amount of old caked-on grease/other residue observed near right/front of grease receptacle. Re-inspection scheduled for 11/16.</p> <p><b>November 19, 2018:</b> Re-inspection by Health Dept. confirmed business is in compliance. An additional inspection will be performed to ensure continued compliance near grease receptacle area.</p> <p><b>December 12, 2018:</b> Final inspection by Health Department. Establishment is in compliance.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>

**UPLAND POLLUTANT SOURCES**

<b>Survey Date</b>	<b>I&amp;P Compliance Database ID</b>	<b>Outfall/Site Address</b>	<b>Issue</b>	<b>Response</b>	<b>Status</b>
November 1, 2018		350 Mountain Rd Pasadena, MD	While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of improper cooking oil storage associated with the business, Food Lion, at the address shown above. The team investigated the site at 2:45 p.m. on Thursday, November 1, 2018. The team investigated the dumpster area behind the grocery store and found an open bucket containing cooking oil on the pavement adjacent to a bin for storing kitchen waste grease. There is a possibility that the bucket could be tipped by activities in the dumpster area; thus, spilling the contents onto the pavement. The field crew noted that the area around the bin was stained with grease residue, and observed evidence of wash water displaying an oil slick on its surface. The field crew surmised that employees may be washing the bin or buckets at this site.	<b>November 2, 2018:</b> Report received by WPRP from Versar. <b>November 2, 2018:</b> Report referred to Health Dept. for investigation. <b>November 13, 2018:</b> Investigated by Health Department. Inspector observed empty bakery containers but no evidence of improperly stored used cooking oil or grease spillage.  <b>CASE CLOSED</b>	<b>RESOLVED</b>
December 6, 2018		25 Magothy Beach Rd Pasadena, MD	While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of improper cooking oil storage associated with the business, Passion Asian Bistro, at the address shown above. The team investigated the site at 2:20 p.m. on Thursday, December 6, 2018. Behind the restaurant, the team found a commercial kitchen waste grease bin with an open lid and grease staining on the pavement surrounding the bin. The field crew also found a shopping cart nearby that had oily stains on the pavement beneath the cart's basket. The cart contained a black bag with unknown contents that may have contributed to the oily material.	<b>December 10, 2018:</b> Report received by WPRP from Versar. <b>December 10, 2018:</b> Report referred to Health Dept. for investigation. <b>December 27, 2018:</b> Investigated by Health Dept. Improper grease storage observed (open grease bin lids, evidence of spillage). <b>January 28, 2019:</b> Re-inspection by Health Department. Site observed to be in compliance. Grease bin lids closed and sites cleaned. Some permanent grease staining on concrete remained.  <b>CASE CLOSED</b>	<b>RESOLVED</b>
December 6, 2018		31 Magothy Beach Rd Pasadena, MD	While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of improper cooking oil storage associated with the business, Ledo Pizza, at the address shown above. The team investigated the site at 2:00 p.m. on Thursday, December 6, 2018. The team investigated the dumpster area behind the restaurant and found a commercial kitchen waste grease bin with grease staining on the pavement in front of the bin. The field crew noted that there was a storm drain inlet approximately 30 feet down-gradient of the dumpster area. The proximity of the inlet to the grease bin may facilitate the transport of grease and food waste, when improperly handled, to the storm water network during rain events.	<b>December 10, 2018:</b> Report received by WPRP from Versar. <b>December 10, 2018:</b> Report referred to Health Dept. for investigation. <b>December 27, 2018:</b> Investigated by Health Dept. Improper grease storage observed (open grease bin lids, evidence of spillage). <b>January 28, 2019:</b> Re-inspection by Health Department. Site observed to be in compliance. Grease bin lids closed and sites cleaned. Some permanent grease staining on concrete remained.  <b>CASE CLOSED</b>	<b>RESOLVED</b>

**UPLAND POLLUTANT SOURCES**

<b>Survey Date</b>	<b>I&amp;P Compliance Database ID</b>	<b>Outfall/Site Address</b>	<b>Issue</b>	<b>Response</b>	<b>Status</b>
February 6, 2019		3201 Mountain Rd Plaza Pasadena, MD	While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of waste management issues associated with the Mountain Road Plaza shopping center, at the address shown above. The team investigated the site at 11:05 a.m. on Wednesday, February 6, 2019. The team documented that there were four operating restaurants in the shopping center: Papa John's, Wingman, Daily Scoop (ice cream shop), and China Kitchen. In the parking area behind the restaurants, the team found a commercial kitchen waste grease bin with dark staining on the pavement surrounding the bin. The field crew also found an open drum cart nearby that contained trash; the contents of this container were not secured; the debris could be spread by animals or vandals toppling the drum. The team noted that there was trash strewn around the property. The crew also observed an open, overflowing dumpster that held cardboard boxes.	<p><b>February 8, 2019:</b> Report received by WPRP from Versar.</p> <p><b>February 11, 2019:</b> Report referred to Health Dept. for investigation.</p> <p><b>February 13, 2019:</b> Investigated by Health Department. An open 55-gallon steel drum was observed, along with a grease bin with some minor grease spillage on the top and ground. It was determined that the bin belonged to China Kitchen.</p> <p><b>February 22, 2019:</b> Follow-up inspection by Health Department. The drum had been removed, and the bin and surrounding area had been cleaned.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>
March 5, 2019		6934 Aviation Blvd Glen Burnie, MD	While out performing field work, WPRP staff observed a large uncovered salt pile in the parking lot of 6934 Aviation Blvd. The pile was located approx. 5 ft away from a storm drain curb inlet.	<p><b>March 5, 2019:</b> WPRP staff notified I&amp;P of the potential upland pollution source via email, with photos included.</p> <p><b>March 6, 2019:</b> I&amp;P investigated and found that the salt pile had been covered with a tarp. I&amp;P will continue to monitor the situation over the next two weeks to ensure the salt pile remains covered.</p> <p><b>March 21, 2019:</b> No violations observed.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>

**UPLAND POLLUTANT SOURCES**

Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
March 19, 2019		Cape St. Claire Shopping Center 1320–1396 Cape St. Claire Rd. Annapolis, MD	While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of improper cooking oil storage as the primary concern associated with several businesses occupying the Cape St. Claire Shopping Center. The team investigated the site at 4:15 p.m. on Tuesday, March 19. The team found an open kitchen waste grease container on the lot, behind the Vizzini's Pizza 'N Subs restaurant; the team also documented the presence of two buckets, possibly used to carry food waste, near the bin. The team noted that the pavement around the bin was stained, indicating insufficient care by staff during transfer of grease. The team found several grease bins in the lot with signs of dark grease stains on the surrounding pavement; the lot drained to numerous inlets, so grease and oils could be transported to inlets easily. The crew also found a dumpster stored in the rear lot that had signs of staining from the storage pad to the inlet.	<p><b>March 25, 2019:</b> WPRP received report from Versar.</p> <p><b>March 25, 2019:</b> WPRP referred report to Health Department for further investigation.</p> <p><b>April 2, 2019:</b> Investigated by HD. Multiple violations observed. Vizzini's restaurant was given a violation notice for unclean grease container, buckets of grease with no lid, and grease stains on pavement. Grease stains were observed on ground around grease container belonging to Riverbay Roadhouse. Grease container belonging to Nagoya was observed sitting on non-impervious surface. Trash compactor belonging to Cape Hardware had trash scattered around it; manager was verbally informed to clean up. Trash was also observed around trash compactor belonging to Graul's Market; manager was verbally informed to clean up. Will re-visit in one week to ensure all violations are remedied.</p> <p><b>April 23, 2019:</b> Follow up inspection by HD. All affected areas found to be within compliance.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>

**UPLAND POLLUTANT SOURCES**

Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
April 24, 2019	Z-2019-571	8457 Fort Smallwood Rd Pasadena, MD	<p>While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of waste management issues at a lot found at the address shown above. The team investigated the site at 10:15 a.m. on Wednesday, April 24, 2019. The team documented that the parcel had previously been occupied by a Wendy's restaurant; the building was not occupied at the time of the site visit. In the east corner of the lot, within the dumpster enclosure, the team found large sections of tree trunks. On the north edge of the parking lot, the team photo-documented some of the discarded tires found on the lot. Near the rear of the building, on the parking lot, the team found some roofing shingles. The team documented a pile of debris alongside a bin designated for charity donations. The conditions on the lot were generally unkempt; it was unclear whether the lot was still being maintained.</p>	<p><b>April 25, 2019:</b> WPRP received complaint from Versar.  <b>April 25, 2019:</b> WPRP forwarded complaint to Planning and Zoning via email.  <b>May 2, 2019:</b> Investigated by Zoning Enforcement.  <b>May 8, 2019:</b> Violation notice sent to property owner, with notification of re-inspection to occur on 6/8/19.  <b>June 3, 2019:</b> Zoning Enforcement inspector was contacted by property owner, who stated that illegal dumping has been a recurring issue with the property. Property owner stated that he has a suspicion about who is using the property as a dump site, but cannot prove it. Property owner also informed inspector that the property is currently in the process of being sold and that he is currently making attempts to procure a company to clean up the property. Property owner stated that he may need an extension on the re-inspection date until he can get the property cleaned up.  <b>July 9, 2019:</b> Re-inspection by Zoning Inspector. Inspector observed the violations have been removed. Property owner has placed chain barriers at the three entrances to the property. One of the chains had been knocked down; Inspector notified property owner via email.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>

**UPLAND POLLUTANT SOURCES**

Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
May 23, 2109	E-2019-539	E of Waterview Court Glen Burnie, MD	<p>While investigating a target outfall, O05O008, a Versar team found signs of flowing water on both sides of Waterview Court, leading to two inlets up-network of the outfall. The team traced the two flow paths to investigate the sources. On the west side of the street, the source was a leaking fire hydrant. The hydrant had foam around its base. The crew did not find a definitive source for the water flowing on the east side of the street. There was a significant amount of water at the cul-de-sac, and evidence of mulch disturbance near two trees. The pattern of the disturbance suggests that the source of the water may have been on the east side of the fence. The crew documented a fire hydrant near the disturbed mulch. While the crew was conducting the investigation, there was a loud noise accompanied by a large amount of flowing water coming from the northeast corner of the building at 6761 Waterview Court. The sign at the lot entrance described the lot as a trailer drop lot for the R. E. Michel Company (according to the company Web site, it is a wholesale distributor of heating, ventilation, air conditioning, and refrigeration equipment, parts, and supplies). The Versar team did not attempt to gain access to the facility, due to high fences around the property and a mechanical gate. The water from the corner of the building flowed for a few minutes before stopping. The receiving inlet was not a feature in the County's digital infrastructure. The short stream leading from the outfall and past the northeast side of the R. E. Michel lot leads immediately to Furnace Creek.</p>	<p><b>May 24, 2019:</b> WPRP received report from Versar.  <b>May 24, 2019:</b> WPRP referred case to the DPW Utilities - Emergency Services division to investigate the leaking hydrant; WPRP referred case to I&amp;P to investigate discharge from building at 6761 Waterview Ct.  <b>May 24, 2019:</b> Leaking hydrant investigated by DPW Utilities - Emergency Services division. Referred to Water Line Maintenance for repair.  <b>28 May, 2019:</b> Hydrant repaired by Water Line Maintenance division.  <b>July 19, 2019:</b> Discharge from building at 6761 Waterview Ct. investigated by I&amp;P. No evidence of water discharging from the hydrant or from behind the building. Inspector will continue to monitor the site.</p> <p><b>CASE OPEN</b></p>	<p><b>UNRESOLVED</b></p>



**UPLAND POLLUTANT SOURCES**

Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
July 10, 2019		Deale Place and Park Place intersection Deale, MD	<p>Subsequent to an April 2019 sanitary sewer manhole overflow, residents in the vicinity of the site continued to report sewage odors. County Bureau of Utilities staff monitored the manhole during rain events and under dry conditions, and conducted I&amp;I testing of the gravity-fed sanitary sewer line, subsequently determining that the sewer line was tight (no I&amp;I) and was not overflowing. In addition to this effort, the County contracted with Anne Arundel Community College to assess bacteria levels in Rockhold Creek at several locations upstream, downstream, and in a shallow cove within 30 yards of the sanitary sewer manhole. Monthly bacteria test results continued to indicate high levels of Enterococcus in the shallow cove. Versar was dispatched to investigate the area, looking for potential sources of illicit discharge or bacteria input to Rockhold Creek.</p> <p>The Versar team did not observe signs of solid waste or damage to the sanitary sewer network near the site intersection or at the sewer manhole; no noxious sewer odors were noticed. The team sampled standing water on the upstream side of the site intersection and no readings were above IDDE actionable levels. There was no evidence of an illicit discharge to the stormwater network. The Versar team investigated the vicinity of the storm drain network and the sanitary sewer manhole, and observed a large flock of geese (approximately 45), tracks of many geese along the sandy shoreline associated with an overland flow path, and goose droppings concentrated in this area and near the cove. The team surmised that stormwater runoff may transport waterfowl feces and leachate from these droppings to Rockhold Creek at this location, resulting in the high levels of Enterococcus measured in near shore samples from this cove.</p>	<p><b>July 10, 2019:</b> Versar verbally reported results of investigation to County staff.</p> <p><b>July 18, 2019:</b> WPRP deployed wildlife camera at the shallow cove to determine and document the potential for wildlife and waterfowl to cause elevated bacteria levels at this location.</p> <p><b>July 19, 2019:</b> WPRP received site report from Versar, received bacteria monitoring results from community college, and requested additional Rockhold Creek monitoring site off a pier within this cove (in addition to the site about 5 feet off shore in shallow water).</p> <p><b>July 25, 2019:</b> WPRP retrieved wildlife camera and documented a large flock of waterfowl (geese, ducks) and other wildlife utilizing this area for grazing, loafing, and overnight nesting.</p> <p><b>July 31, 2019:</b> Weekly water quality monitoring results reveal Enterococcus counts are lower at new Rockhold Creek site (off pier) but consistently above standards for the shallow water cove site. County and Community College staff conclude that waterfowl and wildlife are the primary sources of the bacteria pollution. No enforcement actions are taken.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>

**EROSION AND STRUCTURAL ISSUES**

<b>Survey Date</b>	<b>I&amp;P Compliance Database ID</b>	<b>Outfall/Site Address</b>	<b>Issue</b>	<b>Response</b>	<b>Status</b>
December 11, 2018		Near Inlet W10I023 Downs Memorial Park Locust Cove Road Pasadena, MD	While investigating target outfalls in the vicinity, a Versar team found evidence of collapsed infrastructure in the area immediately adjacent to the inlet with Local ID W10I023. The team observed the conditions at 2:10 p.m. on Tuesday, December 11, along Locust Cove Road, in John (Jack) Downs Memorial Park. The team observed two depressions in the swale on the north side of the structure. The team estimated the subsidence depth to be approximately 18 inches.	<p><b>December 13, 2018:</b> Complaint received by WPRP from Versar.</p> <p><b>December 12, 2018:</b> Complaint referred to Rec and Parks for correction.</p> <p><b>December 17, 2018:</b> WPRP notified that Parks Maintenance will be investigating.</p> <p><b>December 18, 2018:</b> Parks maintenance found washout conditions consistent with Versar's findings. Fill dirt and top soil was used to repair washed out area, and covered until area can be re-seeded with grass in spring.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>
February 5, 2019		S150022 Ring Rd. & College Parkway Arnold, MD	While investigating a target outfall, Facility ID S15O022, a Versar team found evidence of collapsing infrastructure at the endwall associated with the outfall. The team observed the conditions at 1:55 p.m. on Tuesday, February 5, at the northwest corner of Anne Arundel Community College campus, along Ring Road. The field crew surmised that the roots from a large tree have exerted pressure behind the endwall such that a portion of the structure is now offset by approximately 15 degrees. The forces on the wall are also exacerbating a crack on the face of the structure. These conditions compromise the structural integrity of the endwall, and further damage from water and roots is likely to continue at this site.	<p><b>February 9, 2019:</b> Complaint received by WPRP from Versar.</p> <p><b>February 9, 2019:</b> Complaint referred to IMD for investigation.</p> <p><b>February 9, 2019:</b> Investigated by IMD. This repair has been made a "Priority 3" project and will be assigned to the County's contractor for repair based on priority and public safety hazard determination.</p> <p><b>July 18, 2019:</b> Tickler sent by WPRP.</p> <p><b>CASE OPEN</b></p>	<b>UNRESOLVED</b>
February 5, 2019		S14O014 1003 Via Amarosa Arnold, MD	While investigating target outfalls in the vicinity, a Versar team found evidence of collapsing infrastructure at a manhole in the network associated with outfall S14O014. The team observed the conditions at 3:35 p.m. on Tuesday, February 5, along Via Amorosa. A homeowner alerted the crew to significant ground subsidence around a manhole approximately 30 feet up-network from the outfall. The crew observed that the outfall was also being undercut by water flowing under the end segment. The team estimated the undercut depth to be approximately 18 inches.	<p><b>February 9, 2019:</b> Complaint received by WPRP from Versar.</p> <p><b>February 9, 2019:</b> Complain referred to IMD for investigation.</p> <p><b>February 9, 2019:</b> Investigated by IMD. This repair has been made a "Priority 3" project and will be assigned to the County's contractor for repair based on priority and public safety hazard determination.</p> <p><b>July 18, 2019:</b> Tickler sent by WPRP.</p> <p><b>CASE OPEN</b></p>	<b>UNRESOLVED</b>

**EROSION AND STRUCTURAL ISSUES**

<b>Survey Date</b>	<b>I&amp;P Compliance Database ID</b>	<b>Outfall/Site Address</b>	<b>Issue</b>	<b>Response</b>	<b>Status</b>
April 18, 2019		N041067 587 E Ordnance Rd, Curtis Bay, MD 21226	While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of collapsed infrastructure adjacent to the building for the Get Air Trampoline Park (address, 587 East Ordnance Road). The team investigated the site at 3:42 p.m. on Thursday, April 18. The team found that an area of pavement in a corner of the parking lot, adjacent to an inlet, had collapsed (Figure 1). The crew estimated that the maximum depth of the hole was approximately eight inches, at the time of the inspection.	<p><b>April 22, 2019:</b> Complaint received by WPRP from Versar.</p> <p><b>April 22, 2019:</b> Complaint referred to IMD for further investigation.</p> <p><b>June 26, 2019:</b> IMD has placed this concern in the queue of site investigations. Video inspection is scheduled for July 1, 2019.</p> <p><b>July 1, 2019:</b> Video inspection revealed that the inlet is leaking and requires repair. The storm drain pipe is in good condition. Inlet was found to be privately owned. Referred to I&amp;P for further action.</p> <p><b>July 8, 2019:</b> Inspected by I&amp;P. Correction notice sent to property owner by I&amp;P.</p> <p><b>CASE OPEN</b></p>	<b>RESOLVED</b>
April 18, 2019		610 E Ordnance Rd Glen Burnie, MD	While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of damaged infrastructure in the parking lot associated with the Home Depot store at 601 East Ordnance Road. The team investigated the site at 2:40 p.m. on Thursday, April 18. The team found that an area of pavement in a corner of the parking lot, adjacent to an inlet, was being flooded with water. The source of the water seemed to be under a crack in the pavement. The field crew noted that the released water did not have a detectable odor; the crew surmised that the water was escaping from a tap water source under the pavement. The crew noted that the owners or employees with the business were aware of the condition, since cones were in place to alert the public of the unusual state.	<p><b>April 22, 2019:</b> Complaint received by WPRP from Versar.</p> <p><b>April 22, 2019:</b> WPRP staff reported the suspected potable water leak to the County's Bureau of Utility Operations Water Line Maintenance division for further investigation.</p> <p><b>April 22, 2019:</b> Investigated by Water Line Maintenance Division. The break was confirmed to be on Home Depot's property and was their responsibility to repair. The Crew Leader observed the water leak to have been repaired. Crew leader spoke to someone on site as well as someone with Customer Service and they both confirmed the repairs are complete.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>
May 22, 2019		N040045 McLean Way Glen Burnie, MD	While investigating the target outfall, N040045, a Versar team found evidence of severe erosion behind the outfall's endwall, which threatens the stability of the stormwater infrastructure at this location. The team observed the conditions at 10:50 a.m. on Wednesday, May 22, at the end of McLean Way. The crew documented that the erosion extended along the sides and below the structure.	<p><b>May 24, 2019:</b> Complaint received by WPRP from Versar.</p> <p><b>May 24, 2019:</b> Complaint referred to IMD for further investigation.</p> <p><b>July 18, 2019:</b> Tickler sent by WPRP.</p> <p><b>July 18, 2019:</b> Site was placed on list for future site visit and repair cost estimate.</p> <p><b>CASE OPEN</b></p>	<b>UNRESOLVED</b>

**EROSION AND STRUCTURAL ISSUES**

<b>Survey Date</b>	<b>I&amp;P Compliance Database ID</b>	<b>Outfall/Site Address</b>	<b>Issue</b>	<b>Response</b>	<b>Status</b>
May 22, 2019		O06O006 349 Gatewater Court Glen Burnie, MD	While investigating the target outfall, O06O006, a Versar team found evidence of collapsed infrastructure at a curb inlet in the parking lot immediately up-network from the outfall. The team observed the conditions at 12:50 p.m. on Wednesday, May 22, along Gatewater Court. The crew documented that one of the grates at the curb inlet was shifted in its frame, and the surrounding asphalt was crushed.	<p><b>May 24, 2019:</b> Complaint received by WPRP from Versar.</p> <p><b>May 24, 2019:</b> Complaint referred to IMD for further investigation.</p> <p><b>July 18, 2019:</b> Tickler sent by WPRP.</p> <p><b>July 18, 2019:</b> Site was placed on list for future site visit and repair cost estimate.</p> <p><b>CASE OPEN</b></p>	<b>UNRESOLVED</b>
May 22, 2019		O04O005 Curtis Court Glen Burnie, MD	While investigating the target outfall, O04O005, a Versar team found evidence of collapsed infrastructure in the pipe network leading to the outfall. The team observed the conditions at 11:00 a.m. on Wednesday, May 22, northeast of the parking lot associated with 6704 Curtis Court. The crew surmised that erosion had removed some of the supporting ground around and under the pipe structure. Three pipe sections were disconnected from each other; this condition allowed runoff to escape the pipe and contribute to additional erosion. The affected sections of pipe were on a sloped bank immediately behind the outfall's endwall.	<p><b>May 24, 2019:</b> Complaint received by WPRP from Versar.</p> <p><b>May 24, 2019:</b> Complaint referred to IMD for further investigation.</p> <p><b>May 24, 2019:</b></p> <p><b>July 18, 2019:</b> Tickler sent by WPRP.</p> <p><b>July 18, 2019:</b> Site was placed on list for future site visit and repair cost estimate.</p> <p><b>CASE OPEN</b></p>	<b>UNRESOLVED</b>

**Table 5-2. Follow-up and resolution of past unresolved IDDE cases**

Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
March 24, 2017	E-2017-141	M06C4O008 512-514 Crain Highway Glen Burnie, MD	<p>A Versar field team inspected outfall M06C4O008 behind the business park identified as 512-514 Crain Highway N, in Glen Burnie, MD. On the first field visit, Versar staff found the 60-in. reinforced concrete pipe outfall with a large plunge pool that was partially backed up into the pipe. The opaque discharge had a faint oily smell. Test results of discharge indicate a fluoride reading above the acceptable range (4.3) and elevated detergent levels (3.0). The field crew had observed elevated readings for detergents for all tests conducted on 3/23 and attributed the high levels, in part, to runoff carrying road salt, as a consequence of road treatments associated with a recent winter storm. The team conducted a brief, preliminary site reconnaissance and trackdown of the infrastructure leading to the outfall and found that access to the pipes was limited (junctions were buried and grates were welded to their frames). The crew was able to access the system at a yard grate at the far end of the main line. A sample obtained from this access point had fluoride readings of 0.2 (below action levels) and detergent readings of 1.5 (above action levels).</p> <p>The team returned the next day and assessed conditions at the outfall. The discharge was again faintly brown and opaque. The crew observed an oily sheen on the surface of the water. Test results of a sample at the pipe opening indicated a fluoride level of greater than 10.0 (out of range) and a detergent level of greater than 3.0 (above the range of the test's capabilities). The crew conducted a more thorough trackdown on the second day and attempted to gain access to the pipe network to inspect the lines for flowing water and to look for opportunities to obtain water for more samples. The crew cleared and opened the grate in the west corner of the parking lot and obtained a sample of the standing water in the system. Test results for the sample collected at this location indicated a fluoride concentration of 0.5 (below action level) and a detergent level of 0.75 (above action level). The team did not observe flowing water in the access points along the first incoming pipeline from the north (left, up-network of the outfall). As the crew members were following the route for the second pipeline entering from the north, they witnessed active vehicle washing in the parking lot at Bays 1 and 2 of the 514 building arrangement (the crew did not ascertain the business using these facilities at the time). The team observed the sudsy waste water from the washing activity entering the nearby storm drain inlet. The team obtained a sample of the waste water and test results indicated fluoride levels of 0.5 (below action levels) and detergent levels of 3.0. The team found dry conditions in all other access points along the network, except for standing water observed in the last inlet on the line, which the team had observed during the previous visit. The team concluded that contaminants enter the drains from on-site washing activity.</p>	<p>March 27, 2017: Received from Versar.</p> <p>April 3, 2017: Investigated by I&amp;P. Investigator did not observe any vehicle washing taking place in the parking lot or runoff from the tile cutting business in the business park. Inspector observed possible effluent-laden runoff from garages of CC Auto Service (CCAS). Inspector will follow-up with owner/manager of the business park and supervisor of CCAS, to determine source of the runoff and if there is a violation.</p> <p>April 6, 2017: Re-inspection by I&amp;P. No illicit discharge observed from businesses in business park. Inspector and Property Manager (PM) assessed area bordering adjacent property owned by Mr. Safak, observed trash and debris on Mr. Safak's property. Observed significant runoff from Mr. Safak's property onto PM's property, as well as possible illicit connections. Inspector informed PM of damage to storm drain pipe which may be related to illegal wooden structure on Mr. Safak's property. Further investigation into potential connections between PM's and other properties' to follow.</p> <p>April 8, 2017: I&amp;P inspector attempted to locate and identify all branches of the storm drain system in question, including storm drains along Crain Highway and at Empire Towers that could be connected to the storm drain system in question.</p> <p>April 11, 2017: During re-inspection, I&amp;P inspector observes pipe on Mr. Safak's property to be buried. Inspector told Mr. Safak's employees to have Mr. Safak contact him.</p> <p>April 26, 2017: I&amp;P inspector met onsite with Mr. Safak. Inspector observes buried pipes connected to slotted drain which Mr. Safak had installed to manage runoff from his property and from Crain Hwy. No evidence of illicit hand sinks observed. Inspector does not suspect illicit connections or discharge from Mr. Safak's property. Further investigations planned to determine source of discharge.</p> <p>May 2, 2017: Inspection of parking lot repairs at Empire Towers. Inspector observed clean-up from parking lot repairs has occurred. Further investigations planned.</p>	<b>RESOLVED</b>

Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
	E-2017-141 (cont.)		(cont.)	<p>May 31, 2017: I&amp;P Inspector unable to locate source of discharge. Inspector to coordinate meeting with Versar to collect and test new sample at outfall.</p> <p>June 7, 2017: I&amp;P Inspector unable to locate source of discharge. Meeting coordinated for following week to take new sample at outfall.</p> <p>June 13, 2017: I&amp;P inspector met with Versar and property owner. Versar staff obtained samples at outfall, and at inlet between property and Enterprise Rent-a-Car, and at manhole at property entrance from Crain Highway. All samples tested above action level for detergents, below action level for fluoride. Inspector will continue to track down source.</p> <p>July 6, 2017: I&amp;P Inspector visited site, began mapping connected storm drains. Inspector and Versar will investigate further after mapping completed.</p> <p>July 31, 2017 – September 29, 2017: I&amp;P continues to trace all branches of storms drain system.</p> <p>October 13, 2017: Inspector has ruled out a branch of the storm drain system that appears to come from the direction of the Enterprise Rent-a-Car facility. The storm drain pipe coming from the direction of Enterprise appears to be an older storm drain that was abandoned. Inspector will reconvene with IDDE consultant to complete a trackdown/sampling of the other branch(es).</p> <p>April 13, 2017: I&amp;P Inspector has found a new plat/plan for these storm drains. A point source of discharge has not been located. MS4 contractor and/or inspector will need to meet with property manager to collect a sample and determine if an illicit discharge is still present.</p> <p>April 17, 2018: I&amp;P inspector checked storm drains along Virginia Ave, adjacent to property 512/514 Crain Hwy. Does not appear any storm drains along Virginia Ave connect into the storm drains at 512/514 Crain Hwy. Will continue to investigate.</p> <p>August 3, 2018: I&amp;P inspector visited the site and saw no evidence of illicit discharge at Bldg 512. Enterprise Car Rental was washing their cars in the wash bays, as was BG's Carwash.</p> <p><b>CASE CLOSED</b></p>	

Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
April 12, 2018	E-2018-240	119O024 (I19B6ONEW2) 2124 Priest Bridge Dr Crofton, MD	<p>A Versar field team inspected outfall I19O024 (I19B6ONEW2), which drains the parking lot of Patuxent Materials, Inc. (Versar field crews previously visited this outfall in August 2015 and in April 2016; this site has been previously identified as I19B6O008new1). At the 27-inch corrugated metal pipe opening of the outfall, the team observed a low flow that initiated while the team was on-site. The discharge was cloudy. The team collected a sample of the flowing water from the pipe to test water quality; test results showed above-action-level concentrations of ammonia (approximately 5 mg/L) and fluoride (10.2 mg/L). The team noted that the sample's high turbidity may have precluded accurate readings in tests where visual assessments were needed to determine the results (e.g., ammonia).</p> <p>The team returned to the site 5 hours later and found conditions at the outfall similar to the earlier observed characteristics, except that the flow rate was markedly reduced. The team collected a sample of water flowing from the pipe to test for fluoride only (the team assessed that there wasn't enough flow to collect an adequate sample of clear water to test for a full suite of parameters). The result of the second fluoride was 7.9, again above the program's action level. Due to the elevated levels of constituents on the second test, the team called the County hotline to report the conditions.</p> <p>The field team did not obtain additional information, via trackdown, which might confirm the source of the illicit discharge. The team confirmed low flow (similar to that observed at the outfall) in the pipe at the northeast corner of the assumed network during the second visit. The team surmised that the origin of the water may be near the top of the drainage system leading from the area adjacent to the Patuxent Materials washdown area; the yard grates in this area were bolted or welded shut, making them difficult to sample. The team did not observe any activity that may have caused the discharge. Evidence collected in previous years suggests that the potential source may be effluent from the Patuxent Materials washdown area or associated water conveyance facilities.</p>	<p>April 12, 2018: Complaint received by I&amp;P from Versar via hotline.</p> <p>April 18, 2018: Inspection by I&amp;P. Inspected observed no flow from outfall. Inspector checked inlets along storm drain system and also found no flow. There is a vehicle/equipment wash area located adjacent to inlet but is contained in its own sanitary system. A 6" PVC pipe was located connecting the vehicle wash trench drain and storm inlet but not clear which way pipe falls. No samples were collected. Will continue to monitor.</p> <p>February 11, 2019: Follow up inspection by I&amp;P. Inspector could not locate any discharge.</p>	<b>RESOLVED</b>

Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
May 3, 2018	E-2018-280	I170016 1651 Crofton Blvd Crofton, MD	<p>On May 3, at 12:12 p.m., a Versar field team inspected outfall I170016, which drains the parking lot of 1651 Crofton Blvd. At the 21-inch reinforced concrete pipe opening of the outfall, the team observed a very low flow they were able to collect a sample of the flowing water from the pipe to test water quality. Test results showed above-action-level concentrations of chlorine (0.40 mg/L). The team performed an assessment of the parking lot, but found no indication of current or recent washdowns.</p> <p>The team returned to the site at 9:30 a.m. on May 4, 2018 and found conditions at the outfall similar to the earlier observed characteristics. The team collected a sample of water flowing from the pipe for testing, with the results for chlorine (0.05 mg/L) below the program's action level. However, concentrations for ammonia (7.00 mg/L) and detergents (0.60 mg/L) were above actionable levels and the team called the County hotline to report the conditions.</p> <p>The field team did not obtain additional information, via trackdown, which might confirm the source of the illicit discharge. The team confirmed low flow (similar to that observed at the outfall) at the inlet immediately upstream from the outfall during the second visit. At the next manhole upstream, the team observed standing water with no flow.</p>	<p>May 3, 2018: Complaint received from Versar by I&amp;P. May 7, 2018: Investigated by I&amp;P. Investigation revealed a slight flow of water seeping from ground into inlet. Investigator opened next control structure in line, a manhole, and observed a higher volume of water, but not flowing. Several empty herbicide containers were observed near inlet. According to tenants on property, vehicle washing has occurred on premises. Will continue to monitor and coordinate with Versar to continue sampling. February 11, 2019: Follow up investigation by I&amp;P. Inspector could not locate any discharge from inlet or from containers found on site.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>



Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
May 3, 2018	E-2018-293	M08O016 203 Hospital Dr Glen Burnie, MD	<p>On May 3<sup>rd</sup> at 2:44 PM, a Versar field team inspected outfall M08O016, which drains the parking lot of an office building at 200 Hospital Dr. At the 30-inch reinforced concrete pipe opening of the outfall, the team observed a very low flow, however the team was able to collect a sample of the flowing water from the pipe to test water quality. Test results showed above-action-level concentrations of detergents (2.00 mg/L) and ammonia (1.00 mg/L). The team performed a cursory search to identify the source, and observed slight flow discharging from a pipe on the other side of Hospital Dr., in front of 200 Hospital Dr.</p> <p>The team returned to the site at 11:50 a.m. on May 4 and found conditions at the outfall similar to the earlier observed characteristics. The team collected a sample of water flowing from the pipe for testing, with the results showing that the concentration for ammonia (0.60 mg/L) had fallen below the program's action level. The concentration for detergents (2.00 mg/L) remained above actionable levels and the team called the County hotline to report the conditions.</p> <p>The field team conducted a trackdown to identify the source of the illicit discharge. Across the road, at 200 Hospital Drive, the team found flow coming from an unmapped 12-inch reinforced concrete pipe that fed into the culvert leading to the target outfall. The team did not have any maps of the system leading to this the discharging pipe so were unable track a source beyond this location.</p>	<p>May 9, 2018: Complaint received by WPRP from Versar.</p> <p>May 9, 2018: Complaint referred to I&amp;P for investigation.</p> <p>June 8, 2018: Investigation by I&amp;P and WPRP staff. Prior scheduled inspections on 5/18, 5/24, and 6/1 all postponed due to significant rain events.</p> <p>June 9, 2016: Investigation by I&amp;P and WPRP staff.</p> <p>June 15, 2016: Investigation by I&amp;P and WPRP staff. Ammonia tested above action level. Manholes opened in attempt to trace flow to source – no source identified. Will continue to monitor.</p> <p>February 5, 2019: Follow up investigation by I&amp;P. Inspector could not find source of discharge. Will monitor again in future if illicit discharge is found again.</p>	<b>RESOLVED</b>
				<b>CASE CLOSED</b>	

Survey Date	I&P Compliance Database ID	Outfall/Site Address	Issue	Response	Status
May 4, 2018	E-2018-292	M08O019 203 Hospital Dr Glen Burnie, MD	<p>On May 4, at 1:00 p.m., a Versar field team inspected outfall M08O019 which drains the parking lot of an office building at 200 Hospital Dr. At the 33-inch reinforced concrete pipe opening of the outfall, the team observed a low flow and collected a sample of the flowing water from the pipe to test water quality. Test results showed above-action-level concentrations of detergents (0.50 mg/L) and ammonia (2.50 mg/L).</p> <p>The team returned to the site at 12:30 p.m. on May 7, 2018 and found conditions at the outfall similar to the earlier observed characteristics, although flow had decreased. The team collected a sample of water flowing from the pipe for testing. The concentrations for detergents (0.00 mg/L) had fallen below the program's action level, however concentrations for ammonia (2.00 mg/L) remained above actionable levels and the team called the County hotline to report the conditions.</p> <p>The field team conducted a trackdown to identify the source of the illicit discharge. As the majority of the manholes in the system were found within the hospital's emergency intake area, the team decided to not open manholes that could interfere with emergency vehicles. The team was able to search each of the branches but was not able to find a clear source. A very slight flow was found on the other side of Hospital Dr., in front of 300 Hospital Dr. Another inlet, directly in front of ambulance parking bays, held stagnant water and could potentially be an oil/water separator as it was at the end of a trench drain. The team suspected the increased flow during the first visit, while the weather was warmer, could indicate the discharge from the outfall was condensate from the hospital HVAC system.</p>	<p>May 9, 2018: Complaint received by WPRP from Versar.</p> <p>May 9, 2018: Complaint referred to I&amp;P for investigation.</p> <p>June 8, 2018: Investigation by I&amp;P and WPRP staff. Prior scheduled inspections on 5/18, 5/24, and 6/1 all postponed due to significant rain events.</p> <p>June 9, 2018: Investigation by I&amp;P and WPRP staff.</p> <p>June 15, 2018: Investigation by I&amp;P and WPRP staff. Outfall tested for detergents (current level at .5 - action level at &gt; or =.5) and ammonia (current level at 1.3 - action level at &gt; or = 1.0). Following the testing, manhole lids were checked in the hospital parking lot and emergency bays to track the flow and attempt to identify the potential source. No sources were identified. Site will receive continued monitoring.</p> <p>February 5, 2019: Follow up inspection by I&amp;P. Inspector was unable to find the source of the illicit discharge. Case is closed at this time. Will monitor in the future if illicit discharge is found again.</p> <p><b>CASE CLOSED</b></p>	<b>RESOLVED</b>

## 6 REFERENCES

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**APPENDIX A**  
**EROSION AND STRUCTURAL ISSUES**  
**SITE-SPECIFIC REPORTS**

## Anne Arundel County Infrastructure Report

Location: Locust Cove Road, Downs Memorial Park, Pasadena  
Date: December 11, 2018  
Investigators: M. Berlett and L. McDonald  
Concern: Collapsed infrastructure

While investigating target outfalls in the vicinity, a Versar team found evidence of collapsed infrastructure in the area immediately adjacent to the inlet with Feature ID W10I023. The team observed the conditions at 2:10 p.m. on Tuesday, December 11, along Locust Cove Road, in John (Jack) Downs Memorial Park. The team observed two depressions in the swale on the north side of the structure (Figure 1). The team estimated the subsidence depth to be approximately 18 inches. An area map, indicating the location of the inlet, is provided in Figure 2.



Figure 1. Evidence of soil subsidence immediately adjacent to the inlet, Feature ID W10I023



Figure 2. Area map

## Anne Arundel County Infrastructure Report

Location: 1003 Via Amorosa, Arnold  
Date: February 5, 2019  
Investigators: M. Berlett and B. Hood  
Concern: Collapsing infrastructure

While investigating target outfalls in the vicinity, a Versar team found evidence of collapsing infrastructure at a manhole in the network associated with outfall S14O014. The team observed the conditions at 3:35 p.m. on Tuesday, February 5, along Via Amorosa. A homeowner alerted the crew to significant ground subsidence around a manhole approximately 30 feet up-network from the outfall (Figure 1). The crew observed that the outfall was also being undercut by water flowing under the end segment (Figure 2). The team estimated the undercut depth to be approximately 18 inches. An area map, indicating the location of the manhole and the outfall, is provided in Figure 3.



Figure 1. Evidence of soil subsidence immediately adjacent to the manhole





Figure 2. Evidence of undercutting below the outfall pipe (Facility ID: S14O014)



Figure 3. Area map

## Anne Arundel County Infrastructure Report

Location: Southwest of the intersection of Ring Road and College Parkway, Arnold  
 Date: February 5, 2019  
 Investigators: M. Berlett and B. Hood  
 Concern: Collapsing infrastructure

While investigating a target outfall, Facility ID S15O022, a Versar team found evidence of collapsing infrastructure at the endwall associated with the outfall. The team observed the conditions at 1:55 p.m. on Tuesday, February 5, at the northwest corner of Anne Arundel Community College campus, along Ring Road. The field crew surmised that the roots from a large tree have exerted pressure behind the endwall such that a portion of the structure is now offset by approximately 15 degrees (Figure 1). The forces on the wall are also exacerbating a crack on the face of the structure (Figure 2). These conditions compromise the structural integrity of the endwall, and further damage from water and roots is likely to continue at this site. An area map, indicating the location of the endwall, is provided in Figure 3.



Figure 1. Evidence of a displacement in part of an endwall (Facility ID: S15O022) at the base of a large tree



Figure 2. Detail view of the large crack (also shown in Figure 1) in the face of the endwall (Facility ID: S150022)

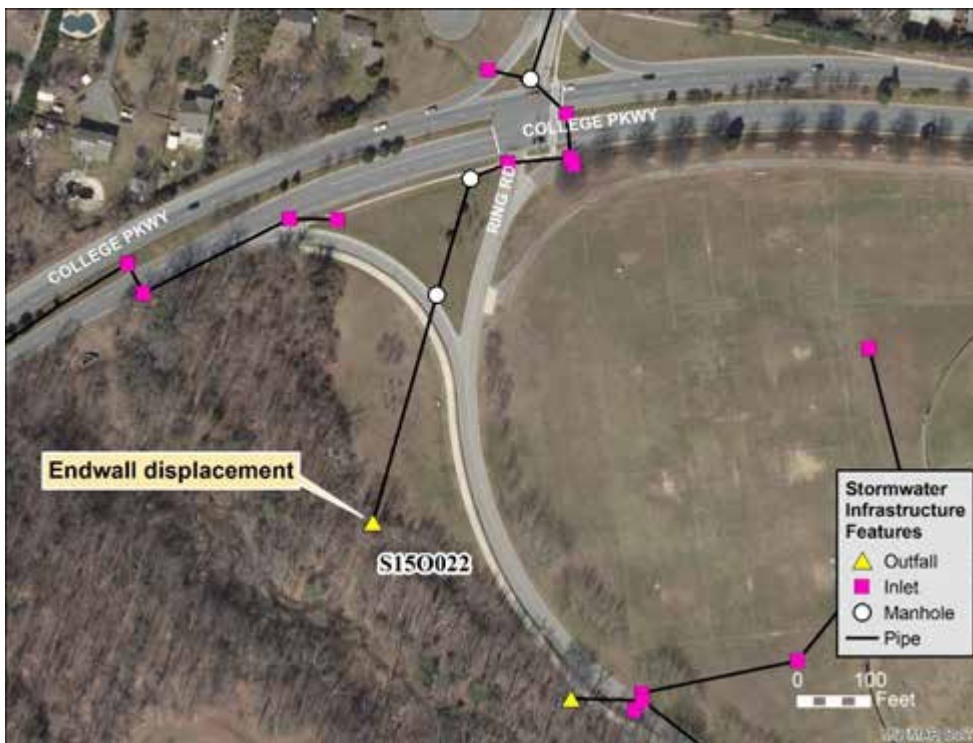


Figure 3. Area map

## Anne Arundel County Infrastructure Report

Location: Get Air Trampoline Park, Glen Burnie (587 E. Ordnance Rd.)  
Date: April 18, 2019  
Investigators: M. Berlett and M. Genovese  
Concern: Collapsed infrastructure

While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of collapsed infrastructure adjacent to the building for the Get Air Trampoline Park (address, 587 East Ordnance Road). The team investigated the site at 3:42 p.m. on Thursday, April 18. The team found that an area of pavement in a corner of the parking lot, adjacent to an inlet, had collapsed (Figure 1). The crew estimated that the maximum depth of the hole was approximately eight inches, at the time of the inspection. An area map, indicating the general location of the collapsed pavement, is provided in Figure 2.



Figure 1. A view of a collapsed section of the parking lot, adjacent to an inlet, found near the Get Air Trampoline Park



Figure 2. Area map

## Anne Arundel County Infrastructure Report

Location: 610 East Ordnance Road (Home Depot), Glen Burnie  
 Date: April 18, 2019  
 Investigators: M. Berlett and M. Genovese  
 Concern: Damaged infrastructure

While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of damaged infrastructure in the parking lot associated with the Home Depot store at 601 East Ordnance Road). The team investigated the site at 2:40 p.m. on Thursday, April 18. The team found that an area of pavement in a corner of the parking lot, adjacent to an inlet, was being flooded with water (Figure 1). The source of the water seemed to be under a crack in the pavement (Figure 2). The field crew noted that the released water did not have a detectable odor; the crew surmised that the water was escaping from a tap water source under the pavement. The crew noted that the owners or employees with the business were aware of the condition, since cones were in place to alert the public of the unusual state. An area map, indicating the general location of the cracked pavement, is provided in Figure 3.



Figure 1. A view of flooded conditions in the parking lot at the Home Depot; note the receiving inlet in the top right corner of the photograph



Figure 2. Evidence of water escaping from cracks in the parking lot; this appeared to be the source of the flooding

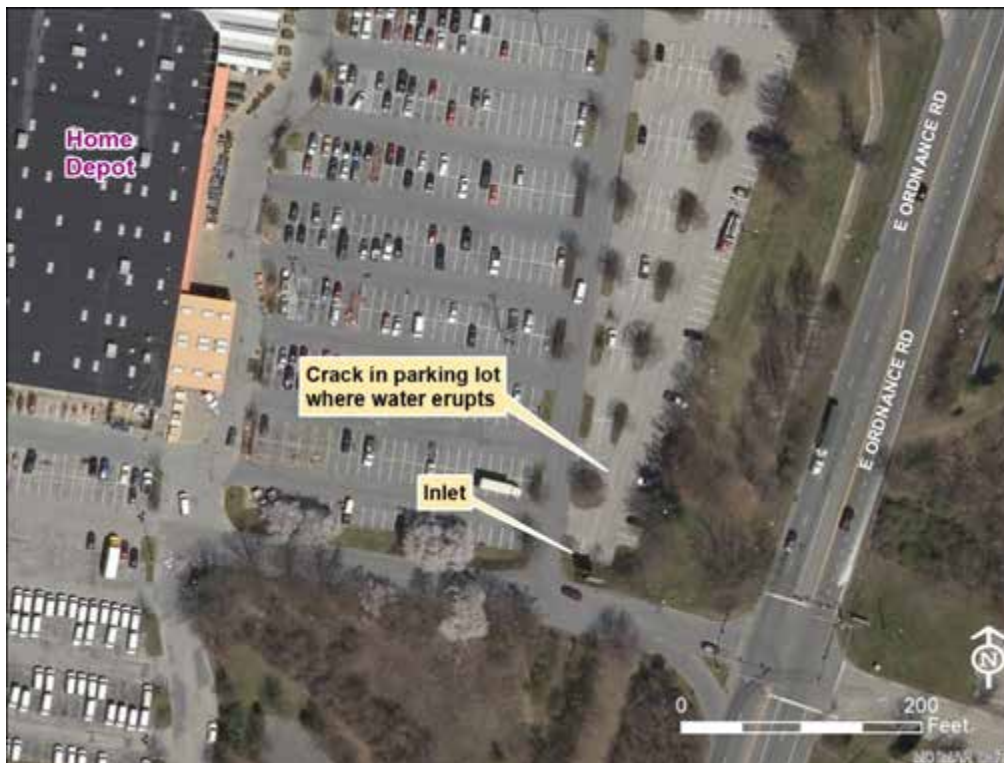


Figure 3. Area map

## Anne Arundel County Infrastructure Report

Location: Near 349 Gatewater Court, Glen Burnie  
Date: May 22, 2019  
Investigators: K. McGuckin and L. McDonald  
Concern: Collapsed infrastructure

While investigating the target outfall, O06O006, a Versar team found evidence of collapsed infrastructure at a curb inlet in the parking lot immediately up-network from the outfall. The team observed the conditions at 12:50 p.m. on Wednesday, May 22, along Gatewater Court. The crew documented that one of the grates at the curb inlet was shifted in its frame, and the surrounding asphalt was crushed (Figure 1). An area map, indicating the location of the inlet, is provided in Figure 2.



Figure 1. Evidence of inlet damage on Gatewater Court



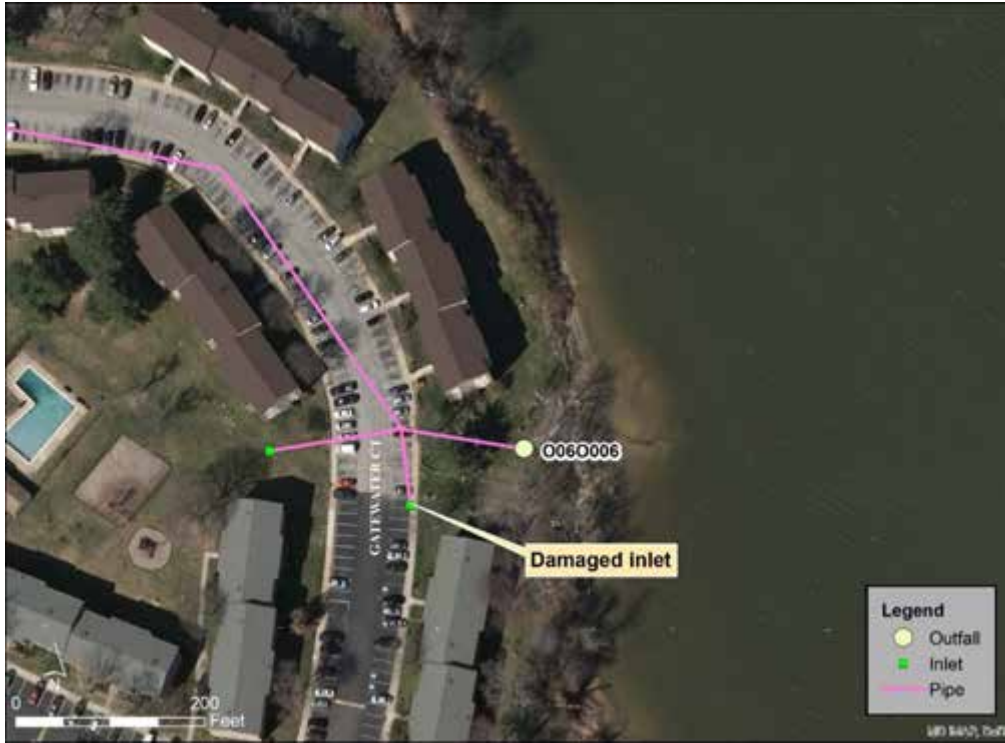


Figure 2. Area map

## Anne Arundel County Infrastructure Report

Location: Northeast of the Curtis Court cul-de-sac, Glen Burnie  
Date: May 22, 2019  
Investigators: K. McGuckin and L. McDonald  
Concern: Collapsed infrastructure

While investigating the target outfall, O04O005, a Versar team found evidence of collapsed infrastructure in the pipe network leading to the outfall. The team observed the conditions at 11:00 a.m. on Wednesday, May 22, northeast of the parking lot associated with 6704 Curtis Court. The crew surmised that erosion had removed some of the supporting ground around and under the pipe structure. Three pipe sections were disconnected from each other; this condition allowed runoff to escape the pipe and contribute to additional erosion (Figure 1 and Figure 2). The affected sections of pipe were on a sloped bank immediately behind the outfall's endwall (Figure 3). An area map, indicating the location of the affected pipe network, is provided in Figure 4.



Figure 1. Evidence of erosion and water collecting under the pipe network leading to outfall O04O005



Figure 2. Evidence of erosion removing the bank surrounding the pipe network leading to outfall O04O005



Figure 3. A view of the collapsed pipe sections (upper right and center) near outfall O04O005 (lower left)



Figure 4. Area map

## Anne Arundel County Infrastructure Report

Location: At the end of McLean Way, Glen Burnie  
Date: May 22, 2019  
Investigators: K. McGuckin and L. McDonald  
Concern: Unsupported infrastructure (erosion)

While investigating the target outfall, N04O045, a Versar team found evidence of severe erosion behind the outfall's endwall, which threatens the stability of the stormwater infrastructure at this location. The team observed the conditions at 10:50 a.m. on Wednesday, May 22, at the end of McLean Way. The crew documented that the erosion extended along the sides (Figure 1) and below the structure (Figure 2). An area map, indicating the location of the outfall, is provided in Figure 3.



Figure 1. Evidence of erosion behind the endwall of outfall N04O045



Figure 2. Evidence of erosion below the endwall of outfall N04O045



Figure 3. Area map



**APPENDIX B**  
**ILLCIT DISCHARGE SITE-SPECIFIC REPORTS**





## Anne Arundel County Illicit Discharge Site Visit Report

Outfall ID: T15O031  
 Location: 398 Kings College Drive, Arnold, MD  
 Date: February 5 and 6, 2019  
 Investigators: M. Berlett and B. Hood (February 5); M. Berlett and I. Turcsanyi (February 6)  
 Concern: Elevated ammonia

On February 5, 2019, a Versar field team inspected outfall T15O031 behind the residence at 398 Kings College Drive, in Arnold, MD. On this first field visit, Versar staff found flowing discharge at the 36-inch reinforced concrete pipe outfall (Figure 1). The crew noted that the effluent was clear and odorless. There was evidence of iron flocculent in the plunge pool. The crew obtained a sample of the discharge at the mouth of the outfall, to test for illicit discharge indicators. The results of the tests are provided in Table 1, as Test 1. The result for ammonia (7 mg/L) was above the acceptable range.

The field team returned on February 6 and assessed conditions at the outfall. The team did not observe a color or odor in the discharge. The crew collected a sample of the discharge at the pipe opening. The results of the tests of this sample are provided in Table 1, as Test 2. The test results indicated an ammonia level of 7 mg/L; other parameter results did not exceed criteria.

The crew conducted a trackdown after the second result demonstrated elevated levels of ammonia. At a private driveway at 288 Yale Court, the crew observed a hose that was draining a backyard pool and discharging to the street (Figure 2). The crew obtained a sample of the water from the hose to test for ammonia. Test results for the sample collected at this location indicated an ammonia level of 13 mg/L. Staff reported the illicit discharge to the pollution hotline on February 6, 2018 and to County DPW staff via e-mail on the same day. An area map is provided in Figure 3.

Table 1. Chemical test results (red values indicate concentrations above action levels) of samples taken at outfall T15O031			
	Action Level	Test 1 Result	Test 2 Result
pH	≤ 6.5 or ≥ 8.5	7.05	7.24
Temperature (°F)		46	45.4
Ammonia (mg/L)	≥ 1	7	7
Total Chlorine (mg/L)	≥ 0.4	0.0	0.0
Detergents (mg/L)	≥ 0.5	0.0	0.1
Fluoride (mg/L)	≥ 0.75	0.0	0.0
Phenols (mg/L)	≥ 0.17	0.0	0.0
Copper (mg/L)	≥ 0.21	0.0	0.0



Figure 1. Conditions at outfall T15O031 on February 5



Figure 2. Evidence of a hose discharging to the street at 288 Yale Court; the source of the water was a backyard pool



Figure 3. Area map

## Anne Arundel County Illicit Discharge Site Visit Report

Outfall ID: T16O006  
Location: Behind 37 Church Road, Arnold, MD  
Dates: March 7 and 8, 2019  
Investigators: M. Berlett and I. Turcsanyi  
Concern: Chlorine above action levels

On March 7, 2019, at 10:30 a.m., a Versar field team inspected the outfall, T16O006. The drainage area for the outfall includes the eastern part of the parking lot for the Safeway grocery store (1451 S. Ritchie Highway), the short stretch of Arnold Road, and part of Church Road. There is an Exxon gas station lot (1501 Ritchie Highway) across Arnold Road from the Safeway parking lot. The outfall is located to the east of the residential lot at 37 Church Road. At the 24-inch reinforced concrete pipe opening of the outfall, the team observed flowing conditions (Figure 1); the team collected a sample of the flowing water from the pipe to test water quality. Test results are presented in Table 1, as Test 1; test results show an above-action-level concentration of chlorine (0.6 mg/L). The team noted an oil sheen on the discharge and trash in the plunge pool area.

The Versar team returned to the site at 10:30 a.m. on March 8 and found higher flow conditions at the outfall compared to those observed the previous day. The team collected a sample of water flowing from the pipe for testing. The results are presented in Table 1, as Test 2. The concentration for chlorine (0.6 mg/L) was again above the program's action level. Based on these results, the team called the County Hotline to report the conditions.

The field team conducted a trackdown to identify the source of the illicit discharge. The team followed the course of the pipe network across Church Road and determined that the highest visible flow was observed at the inlet on the southeast corner of the Safeway parking lot. The source of the suspected illicit discharge could not be ascertained. This junction receives overland flows from the parking lot and piped drainage from Arnold Road and a portion of Church Road immediately south of the intersection with Arnold Road. The crew also noted that the feature in the County's digital infrastructure depicting a pipe along the south rim of the parking lot — draining the southwest corner — was not connected to the east side of the lot (the inlet on the southwest corner of the lot drains to the southeast from that location). An area map is provided in Figure 2.

Table 1. Chemical test results (red values indicate above-action-level concentration) of samples taken at outfall T16O006 on March 7 and 8, 2019			
	Action Level	Test 1 Result	Test 2 Result
pH	$\leq 6.5$ or $\geq 8.5$	8.12	8.47
Temperature (°F)		37.6	37.8
Ammonia (mg/L)	$\geq 1$	0	0
Total Chlorine (mg/L)	$\geq 0.4$	<b>0.6</b>	<b>0.6</b>
Detergents (mg/L)	$\geq 0.5$	0	0
Fluoride (mg/L)	$\geq 0.75$	0.59	0
Phenols (mg/L)	$\geq 0.17$	0	0
Copper (mg/L)	$\geq 0.21$	0	0



Figure 1. A view of conditions at Outfall T16O006 on March 7, 2019



Figure 2. Area map, showing the location of the target outfall and flow patterns observed in the associated infrastructure on March 8, 2019

## Anne Arundel County Illicit Discharge Site Visit Report

Outfall ID: U16O010  
 Location: At the end of Wood Hollow Court, Annapolis, MD  
 Dates: March 7 and 8, 2019  
 Investigators: M. Berlett and I. Turcsanyi  
 Concern: Chlorine above action levels

On March 7, 2019, at 1:50 p.m., a Versar field team inspected the outfall, U16O010. The drainage area for the outfall includes the full extent of Star Pine Drive and several side streets attached to it; the land use in this area is residential. The outfall is located to the southwest of the west end of Wood Hollow Court. At the 42-inch reinforced concrete pipe opening of the outfall, the team observed flowing conditions (Figure 1); the team collected a sample of the flowing water from the pipe to test water quality. Test results are presented in Table 1, as Test 1; test results show an above-action-level concentration of chlorine (0.8 mg/L).

The Versar team returned to the site at 11:20 a.m. on March 8 and found higher flow conditions at the outfall compared to those observed the previous day. The team collected a sample of water flowing from the pipe for testing. The results are presented in Table 1, as Test 2. The concentration for chlorine (0.8 mg/L) was again above the program's action level. Based on these results, the team called the County Hotline to report the conditions.

The field team conducted a trackdown to identify the source of the illicit discharge. The team followed the course of the pipe network and observed that the flow originated near a fire hydrant and several water main access ports in front of 1556 Star Pine Drive. An area map is provided in Figure 2.

Table 1. Chemical test results (red values indicate above-action-level concentration) of samples taken at outfall U16O010 on March 7 and 8, 2019			
	Action Level	Test 1 Result	Test 2 Result
pH	≤ 6.5 or ≥ 8.5	7.58	7.56
Temperature (°F)		48.6	47.9
Ammonia (mg/L)	≥ 1	0.15	0
Total Chlorine (mg/L)	≥ 0.4	<b>0.8</b>	<b>0.8</b>
Detergents (mg/L)	≥ 0.5	0.1	0
Fluoride (mg/L)	≥ 0.75	0	0
Phenols (mg/L)	≥ 0.17	0	0
Copper (mg/L)	≥ 0.21	0	0





Figure 1. A view of conditions at Outfall U16O010 on March 7, 2019



Figure 2. Area map, showing the location of the target outfall and associated infrastructure

## Anne Arundel County Illicit Discharge Special Report

Outfall ID: O22O014  
 Location: near 510 Hoot Owl Road, Riva, MD  
 Date: March 13, 2019  
 Investigators: M. Berlett and I. Turcsanyi  
 Concern: Elevated ammonia

On March 13, 2019, a Versar field team inspected outfall O22O014 at the end of Hoot Owl Road, in Riva, MD, as requested by Anne Arundel County staff (as a revisit from a screening in 2018). The Versar crew found flowing discharge at the 66-inch-wide oval-shaped reinforced concrete pipe outfall (Figure 1). The crew noted that the effluent was yellow and odorless. The crew obtained a sample of the discharge at the mouth of the outfall, to test for illicit discharge indicators. The results of the tests are provided in Table 1, as Test 1. No parameters exceeded program thresholds.

Near the inlet immediately up-network from the outfall, the field team observed a hose that was draining a backyard pool and discharging to the street (Figure 2). The crew obtained a sample of the discharge water at the inlet. The results of the tests of this sample are provided in Table 1, as Test 2. The test results indicated detergent level of 1.0 mg/L and an ammonia level of 2.0 mg/L; other parameter results did not exceed criteria. Staff reported the potential illicit discharge to the Anne Arundel County pollution hotline on March 13. An area map is provided in Figure 3.

Table 1. Chemical test results (red values indicate concentrations above action levels) of samples taken at outfall O22O014 (Test 1) and a contributing discharge (Test 2)			
	Action Level	Test 1 Result	Test 2 Result
pH	≤ 6.5 or ≥ 8.5	6.65	6.98
Temperature (°F)		43.4	Not recorded
Ammonia (mg/L)	≥ 1	0.5	<b>2.0</b>
Total Chlorine (mg/L)	≥ 0.4	0.0	0.0
Detergents (mg/L)	≥ 0.5	0.2	<b>1.0</b>
Fluoride (mg/L)	≥ 0.75	0.0	0.0
Phenols (mg/L)	≥ 0.17	Inconclusive	0.0
Copper (mg/L)	≥ 0.21	0.1	0.0



Figure 1. Conditions at outfall O22O014 on March 13



Figure 2. Evidence of a hose discharge (from the residence on the left) entering an inlet near 510 Hoot Owl Road; the source of the water was a backyard pool



Figure 3. Area map

## Anne Arundel County Illicit Discharge Site Visit Report

Outfall ID: S07O017  
 Location: East of Carroll Road, Riviera Beach, MD  
 Dates: April 24 and 25, 2019  
 Investigators: K. McGuckin and K. Dillow  
 Concern: Ammonia above action levels

On April 24, 2019, at 10:00 a.m., a Versar field team inspected the outfall, S07O017. The drainage area for the outfall includes the full extents of Meadow Road and Dale Road, several side streets attached to them, and portions of Riviera Drive; the land use in this area is mixed commercial, residential, and open space (Riviera Beach Community Park). The outfall is located to the east of Carroll Road, approximately 320 feet northeast of the intersection with Fort Smallwood Road. At the 48-inch reinforced concrete pipe opening of the outfall, the team observed submerged conditions (Figure 1); the team collected a sample of odorless flowing water from the nearest accessible inlet, on Carroll Road, to test water quality. Test results are presented in Table 1, as Test 1; test results show an above-action-level concentration of ammonia (1 mg/L).

The Versar team returned to the site at 8:20 a.m. on April 25 and collected a sample of water flowing from the same up-network inlet for testing. The results are presented in Table 1, as Test 2. The concentration for ammonia (1 mg/L) was again above the program's action level. Based on these results, the team called the County Hotline to report the conditions.

The field team conducted a trackdown to identify the source of the illicit discharge. The team followed the course of the pipe network and observed stagnant water in the next accessible inlet, on the southeast side of Meadow Road. The team obtained a sample from this inlet and documented that the water had a sewage odor. The concentration for ammonia in the test result for this sample was 1.5 mg/L. The team considered the locations of the two samples, relative to a nearby pumping station, and adjacent to a sanitary sewer line; it is possible that the elevated ammonia concentration may be an indication of sewage intrusion into the stormwater system at this location. An area map is provided in Figure 2.

Table 1. Chemical test results (red values indicate above-action-level concentration) of samples taken at outfall S07O017 on April 24 and 25, 2019			
	Action Level	Test 1 Result	Test 2 Result
pH	≤ 6.5 or ≥ 8.5	7.74	7.32
Temperature (°F)		67.1	Not recorded
Ammonia (mg/L)	≥ 1	<b>1</b>	<b>1</b>
Total Chlorine (mg/L)	≥ 0.4	0	0
Detergents (mg/L)	≥ 0.5	0.15	0
Fluoride (mg/L)	≥ 0.75	0	0
Phenols (mg/L)	≥ 0.17	0	0
Copper (mg/L)	≥ 0.21	0	0



Figure 1. A view of conditions at Outfall S07O017 on April 24, 2019

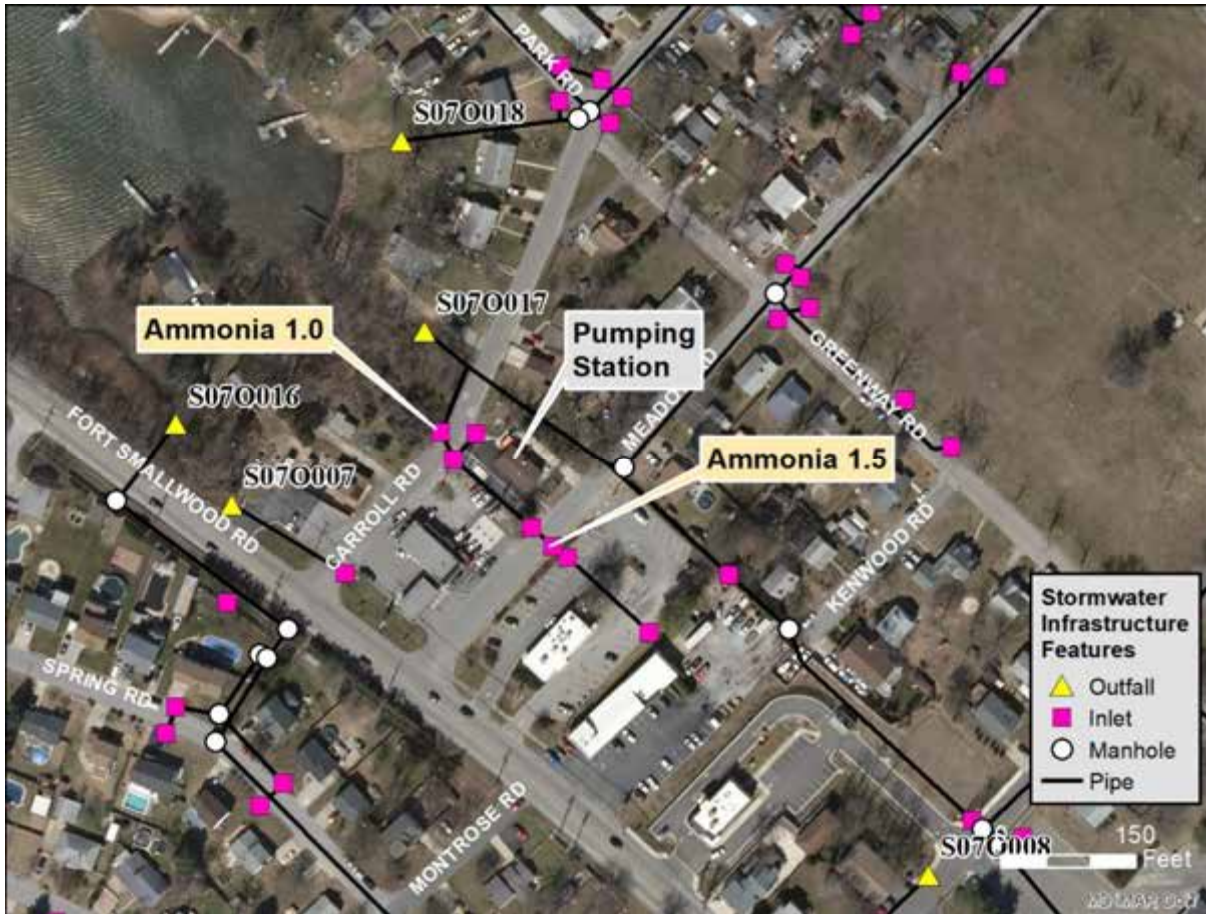


Figure 2. Area map, showing the locations of the test results for ammonia found in the samples



## Anne Arundel County Illicit Discharge Site Visit Report

Outfall ID: S100009  
Location: Southeast of Lakeshore Plaza, Pasadena, MD  
Dates: April 24 and 25, 2019  
Investigators: K. McGuckin and K. Dillow  
Concern: Ammonia above action levels

On April 24, 2019, at 12:00 p.m., a Versar field team inspected the outfall, S100009. The drainage area for the outfall includes the full extent of Lakeshore Plaza Shopping Center, and some adjacent portions of Mountain Road; the land use in this area is commercial. The outfall is located southeast of Lakeshore Plaza Shopping Center, and discharges to a wet pond. At the 54-inch reinforced concrete pipe opening of the outfall, the team observed partially submerged conditions (Figure 1) and a strong manure odor. The team collected a sample from deep within the pipe to test water quality. Test results are presented in Table 1, as Test 1; test results show an above-action-level concentration of ammonia (1.5 mg/L).

The Versar team returned to the site at 9:50 a.m. on April 25 and collected a sample of water from the pipe for testing. The results are presented in Table 1, as Test 2. The concentration for ammonia (1 mg/L) was again above the program's action level. Based on these results, the team called the County Hotline to report the conditions.

The field team conducted a trackdown to identify the source of the illicit discharge. The team followed the course of the pipe network and observed strongly flowing water in some of the inlets in the network. The team obtained samples from several inlets and found ammonia concentrations of 0.75 or 1 mg/L. The team tracked flowing water in two main lines of the system and ammonia in the line from the north. The highest flow in the system was in the pipe coming from the direction of the Hardee's restaurant; a test on the sample collected from the receiving inlet did not indicate a detectable level of ammonia. The team also observed that a 3-inch pipe with flowing effluent connected to the network from the direction of the Grease N' Go business (this feature is not part of the digital data); a test on the effluent did not indicate the presence of ammonia. Based on the results of the observations documented at access points in the network, the team surmised that the ammonia source emerged between Mountain Road and the inlet at the southwest corner of the part of the lot occupied by the Friendly's restaurant. An area map, which indicates the documented flow conditions and the levels of ammonia detected in samples, is provided in Figure 2.

Table 1. Chemical test results (red values indicate above-action-level concentration) of samples taken at outfall S10O009 on April 24 and 25, 2019			
	Action Level	Test 1 Result	Test 2 Result
pH	$\leq 6.5$ or $\geq 8.5$	7.77	7.33
Temperature (°F)		72	Not recorded
Ammonia (mg/L)	$\geq 1$	<b>1.5</b>	<b>1</b>
Total Chlorine (mg/L)	$\geq 0.4$	0	0
Detergents (mg/L)	$\geq 0.5$	0.1	0.1
Fluoride (mg/L)	$\geq 0.75$	0	0
Phenols (mg/L)	$\geq 0.17$	0	0
Copper (mg/L)	$\geq 0.21$	0	0



Figure 1. A view of conditions at Outfall S10O009 on April 24, 2019

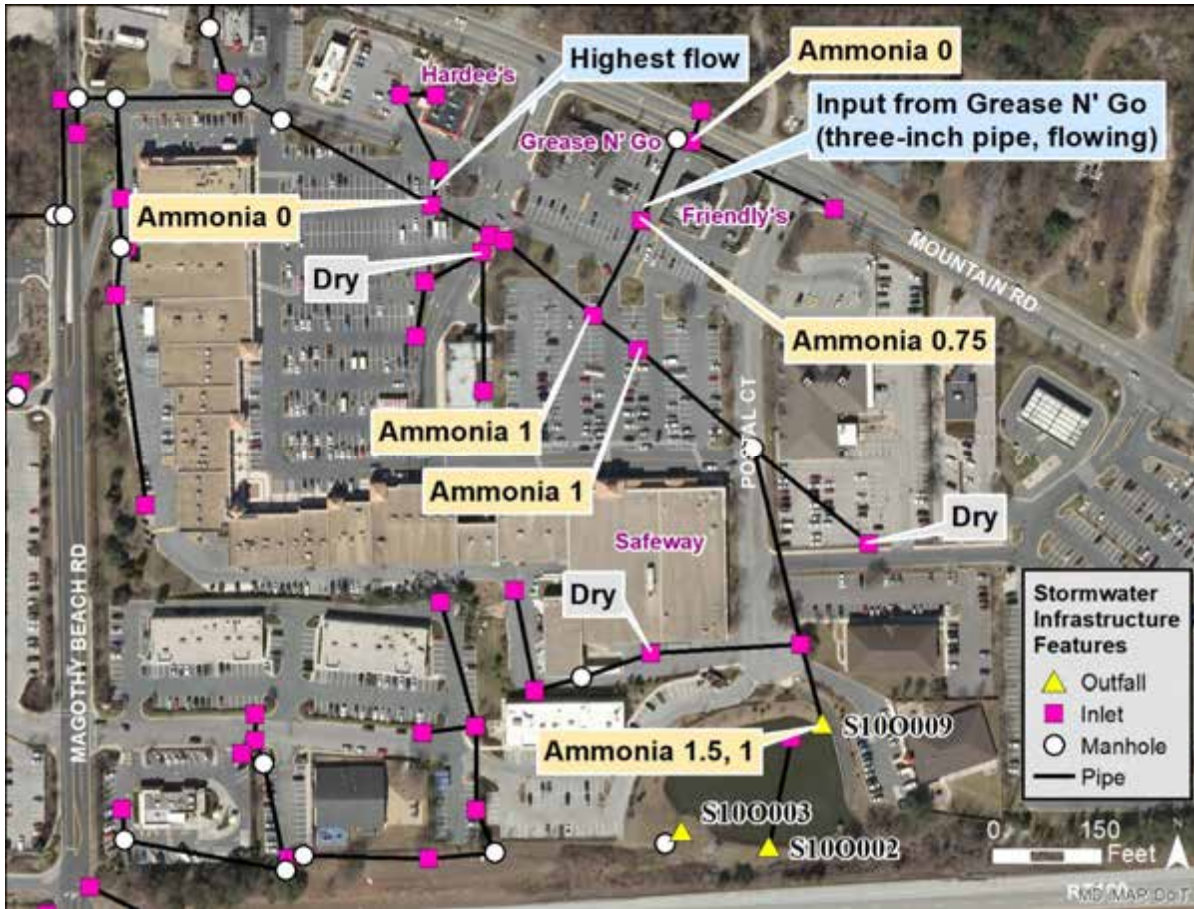


Figure 2. Area map, showing the observed flow conditions and locations of the test results for ammonia found in samples

**APPENDIX C**  
**UPLAND POLLUTANT SOURCES**  
**SITE-SPECIFIC REPORTS**

## Anne Arundel County Hotspot Site Visit Report

Location: 302 Harry S. Truman Parkway, Annapolis  
Date: July 9, 2018  
Investigators: T. Jones and C. Tonkin  
Concern: Improper cooking oil storage

While investigating commercial establishments as part of a demonstration exercise with Anne Arundel County and Maryland Department of the Environment staff, a Versar team found signs of improper cooking oil storage and possible washdown or dumping activity associated with the business, Katana Japanese Cuisine, at the address shown above. The business shares a lot with other establishments in the shopping center. The team investigated the site at 2:00 p.m. on Monday, July 9. The team found a kitchen waste grease container on the lot at the rear of the building. The team noted that the pavement around the bin was stained, indicating insufficient care by staff during transfer of grease (Figure 1). The team also noted an adjacent area of the pavement that exhibited stains extending from a loading dock door. The staining patterns suggested previous washdown or dumping activity (Figure 2). An area map, indicating the general location of the observed conditions, is provided in Figure 3.



Figure 1. A kitchen waste grease bin found on July 9; note the dark grease stains on the pavement near the bin



Figure 2. A view of stains on the pavement that extended from a loading dock door; this section of the parking lot was immediately adjacent to the area shown in Figure 1 (upper right edge)



Figure 3. Area map

## Anne Arundel County Hotspot Site Visit Report

Location: 302 Harry S. Truman Parkway, Annapolis  
Date: July 9, 2018  
Investigators: T. Jones and C. Tonkin  
Concern: Improper cooking oil storage and waste management

While investigating commercial establishments as part of a demonstration exercise with Anne Arundel County and Maryland Department of the Environment staff, a Versar team found signs of improper cooking oil storage and waste management associated with the business, Royal Karma, at the address shown above. The business shares a lot with other establishments in the shopping center. The team investigated the site at 1:58 p.m. on Monday, July 9. The team found two kitchen waste oil drums on the lot near the rear entrance for the business. The team documented that the pavement around the drums was stained; this suggests spills by staff while transferring oils, or leaks from the drums (Figure 1). The stains from the drums mingled with stains near the base of the adjacent dumpster. The pattern of the stains near the dumpster showed distinct dark, shiny patches along the edge and near the corner; this suggests that the dumpster (or dumping activities) is a separate source of contaminant input to the lot (Figure 2). The dark stains also suggest that both sources may contain oils. An area map, indicating the general location of the observed conditions, is provided in Figure 3.



Figure 1. Stains near a kitchen waste oil bin and a dumpster found on July 9





Figure 2. View of stain pattern near the dumpster; note the dark, shiny patches near the foreground edge and the right corner



Figure 3. Area map

## Anne Arundel County Hotspot Site Visit Report

Location: 350 Mountain Road, Pasadena  
Date: November 1, 2018  
Investigators: C. Tonkin and M. Ruehrmund  
Concern: Improper cooking oil storage

While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of improper cooking oil storage associated with the business, Food Lion, at the address shown above. The team investigated the site at 2:45 p.m. on Thursday, November 1, 2018. The team investigated the dumpster area behind the grocery store and found an open bucket containing cooking oil on the pavement adjacent to a bin for storing kitchen waste grease (Figure 1). There is a possibility that the bucket could be tipped by activities in the dumpster area; thus, spilling the contents onto the pavement. The field crew noted that the area around the bin was stained with grease residue, and observed evidence of wash water displaying an oil slick on its surface. The field crew surmised that employees may be washing the bin or buckets at this site. An area map, indicating the general location of the grease bin, is provided in Figure 2.



Figure 1. An open bucket containing waste kitchen oil, seen to the right of the grease bin, and evidence of recent washing activity at the parking lot associated with the Food Lion grocery store on November 1



Figure 2. Area map

## Anne Arundel County Hotspot Site Visit Report

Location: 25 Magothy Beach Road, Pasadena  
Date: December 6, 2018  
Investigators: M. Berlett and A. Foreman  
Concern: Improper cooking oil storage

While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of improper cooking oil storage associated with the business, Passion Asian Bistro, at the address shown above. The team investigated the site at 2:20 p.m. on Thursday, December 6, 2018. Behind the restaurant, the team found a commercial kitchen waste grease bin with an open lid and grease staining on the pavement surrounding the bin (Figure 1). The field crew also found a shopping cart nearby that had oily stains on the pavement beneath the cart's basket (Figure 2). The cart contained a black bag with unknown contents that may have contributed to the oily material. An area map, indicating the general location of the grease bin, is provided in Figure 3.



Figure 1. A kitchen waste grease bin found with an open lid, and dark grease stains on the pavement surrounding the bin, behind the Passion Asian Bistro restaurant on December 6



Figure 2. A shopping cart found with oily residue under the basket; the kitchen grease bin from Figure 1 is seen on the left of the photograph



Figure 3. Area map

## Anne Arundel County Hotspot Site Visit Report

Location: 31 Magothy Beach Road, Pasadena  
 Date: December 6, 2018  
 Investigators: M. Berlett and A. Foreman  
 Concern: Improper cooking oil storage

While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of improper cooking oil storage associated with the business, Ledo Pizza, at the address shown above. The team investigated the site at 2:00 p.m. on Thursday, December 6, 2018. The team investigated the dumpster area behind the restaurant and found a commercial kitchen waste grease bin with grease staining on the pavement in front of the bin (Figure 1). The field crew noted that there was a storm drain inlet approximately 30 feet down-gradient of the dumpster area (Figure 2). The proximity of the inlet to the grease bin may facilitate the transport of grease and food waste, when improperly handled, to the storm water network during rain events. An area map, indicating the general location of the grease bin, is provided in Figure 3.



Figure 1. A kitchen waste grease bin showing dark grease stains on the pavement below the bin behind the Ledo Pizza restaurant on December 6



Figure 2. A view of the relative location of a storm water inlet (left foreground) to the dumpster area; the grease bin is located behind the right gate of the dumpster enclosure (right background)



Figure 3. Area map



## Anne Arundel County Hotspot Site Visit Report

Location: 3201 Mountain Road (Mountain Road Plaza), Pasadena  
 Date: February 6, 2019  
 Investigators: C. Tonkin and A. Bromilow  
 Concern: Waste management

While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of waste management issues associated with the Mountain Road Plaza shopping center, at the address shown above. The team investigated the site at 11:05 a.m. on Wednesday, February 6, 2019. The team documented that there were four operating restaurants in the shopping center: Papa John’s, Wingman, Daily Scoop (ice cream shop), and China Kitchen. In the parking area behind the restaurants, the team found a commercial kitchen waste grease bin with dark staining on the pavement surrounding the bin (Figure 1). The field crew also found an open drum cart nearby that contained trash (Figure 2); the contents of this container were not secured; the debris could be spread by animals or vandals toppling the drum. The team noted that there was trash strewn around the property (Figure 3). The crew also observed an open, overflowing dumpster that held cardboard boxes. An area map, indicating the general location of the grease bin and the dumpster, is provided in Figure 4.



Figure 1. A kitchen waste grease bin found with dark grease stains on the pavement surrounding the bin, behind several restaurants in the Mountain Road Plaza shopping center on February 6; note the open drum to the left in the photograph



Figure 2. A view of the contents of the open drum (also seen in Figure 1) behind several restaurants operating in the shopping center



Figure 3. A view of some of the trash observed in many areas of the lot



Figure 4. Area map

## Anne Arundel County Hotspot Site Visit Report

Location: Cape St. Claire Shopping Center, Annapolis  
 Date: March 19, 2019  
 Investigators: M. Berlett and I. Turcsanyi  
 Concern: Improper cooking oil storage

While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of improper cooking oil storage as the primary concern associated with several businesses occupying the Cape St. Claire Shopping Center (address range 1320–1396 Cape St. Claire Road). The team investigated the site at 4:15 p.m. on Tuesday, March 19. The team found an open kitchen waste grease container on the lot, behind the Vizzini's Pizza 'N Subs restaurant; the team also documented the presence of two buckets, possibly used to carry food waste, near the bin (Figure 1). The team noted that the pavement around the bin was stained, indicating insufficient care by staff during transfer of grease. The team found several grease bins in the lot with signs of dark grease stains on the surrounding pavement; the lot drained to numerous inlets, so grease and oils could be transported to inlets easily (Figure 2). The crew also found a dumpster stored in the rear lot that had signs of staining from the storage pad to the inlet (Figure 3). An area map, indicating the general location of the grease bin, is provided in Figure 4.



Figure 1. An open kitchen waste grease bin found on March 19 behind Vizzini's Pizza N Subs restaurant; note the dark grease stains and the buckets on the pavement near the bin



Figure 2. Signs of staining runoff and a kitchen waste grease bin near an inlet



Figure 3. Evidence of residue from dumpster operations flowing to a nearby inlet



Figure 4. Area map

## Anne Arundel County Hotspot Site Visit Report

Location: 8457 Fort Smallwood Road, Pasadena  
Date: April 24, 2019  
Investigators: K. McGuckin and K. Dillow  
Concern: Waste management

While investigating commercial establishments associated with target outfall screening areas, a Versar team found signs of waste management issues at a lot found at the address shown above. The team investigated the site at 10:15 a.m. on Wednesday, April 24, 2019. The team documented that the parcel had previously been occupied by a Wendy's restaurant; the building was not occupied at the time of the site visit. In the east corner of the lot, within the dumpster enclosure, the team found large sections of tree trunks (Figure 1). On the north edge of the parking lot, the team photo-documented some of the discarded tires found on the lot (Figure 2). Near the rear of the building, on the parking lot, the team found some roofing shingles (Figure 3). The team documented a pile of debris alongside a bin designated for charity donations (Figure 4). The conditions on the lot were generally unkempt; it was unclear whether the lot was still being maintained. An area map is provided in Figure 5.



Figure 1. Evidence of large sections of a tree being stored within the dumpster enclosure on the lot investigated on April 24



Figure 2. A view of some of the discarded tires found in the parking lot



Figure 3. A view of some of the roof shingles observed in the parking lot





Figure 4. A view of some debris found near donation bins



Figure 5. Area map

## Anne Arundel County Hotspot Site Visit Report

Location: East of Waterview Court, Glen Burnie  
Date: May 23, 2019  
Investigators: K. McGuckin and L. McDonald  
Concern: Several observed discharges

While investigating a target outfall, O05O008, a Versar team found signs of flowing water on both sides of Waterview Court, leading to two inlets up-network of the outfall (Figure 1). The team traced the two flow paths to investigate the sources. On the west side of the street, the source was a leaking fire hydrant (Figure 1). The hydrant had foam around its base (Figure 2). The crew did not find a definitive source for the water flowing on the east side of the street (Figure 3). There was a significant amount of water at the cul-de-sac (Figure 4), and evidence of mulch disturbance near two trees (Figure 5). The pattern of the disturbance suggests that the source of the water may have been on the east side of the fence. The crew documented a fire hydrant near the disturbed mulch (Figure 6). While the crew was conducting the investigation, there was a loud noise accompanied by a large amount of flowing water coming from the northeast corner of the building at 6761 Waterview Court (Figure 7). The sign at the lot entrance described the lot as a trailer drop lot for the R. E. Michel Company (according to the company Web site, it is a wholesale distributor of heating, ventilation, air conditioning, and refrigeration equipment, parts, and supplies). The Versar team did not attempt to gain access to the facility, due to high fences around the property and a mechanical gate. The water from the corner of the building flowed for a few minutes before stopping. The receiving inlet was not a feature in the County's digital infrastructure. The short stream leading from the outfall and past the northeast side of the R. E. Michel lot leads immediately to Furnace Creek. An area map, indicating the general location of the observed conditions, is provided in Figure 8.



Figure 1. Flow observed from a leaking fire hydrant on the west side of Waterview Court; the yellow hydrant is visible on the left side of the photograph



Figure 2. A view of beige foam found around the base of the fire hydrant (in front and to the right)



Figure 3. A view of flow entering the inlet from the east side of Waterview Court



Figure 4. A view of accumulated water on the east side of the cul-de-sac



Figure 5. A view of disturbed mulch at the cul-de-sac; the mulch appears to have been pushed from the right side of the photograph, at the fence line



Figure 6. A view showing the relative locations of a red fire hydrant (upper right) on the R.E. Michel lot and the disturbed mulch at the cul-de-sac



Figure 7. A view of a discharge as it was being released from the building at 6761 Waterview Court; the source of the water was to the right of the white van (upper right); the receiving inlet is in the center left of the photograph

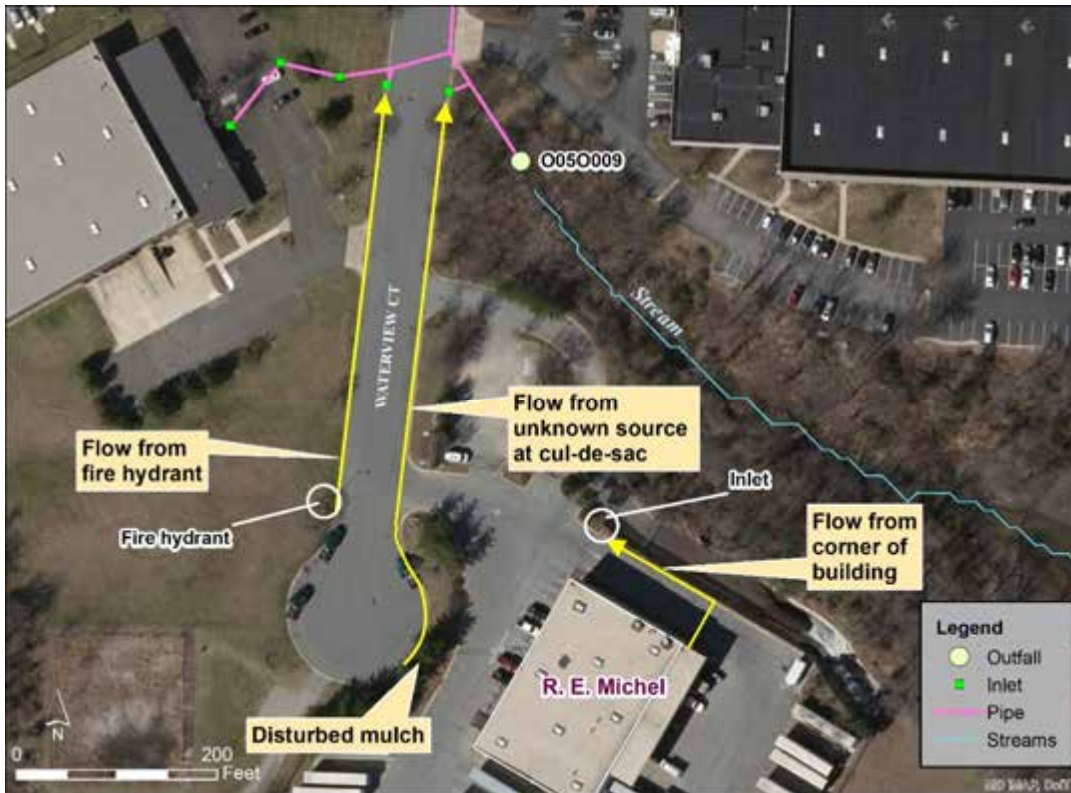


Figure 8. Area map

## Anne Arundel County Special IDDE Site Visit Report (FY2020)

Location: The intersection of Deale Place and Park Place, Deale MD  
Date: July 10, 2019  
Investigators: M. Berlett and G. Rogers  
Concern: Possible sewage source for bacteria in Rockhold Creek

Anne Arundel County staff requested a site visit to storm drain outfall Q34O002, at the intersection of Deale Place and Park Place, to gather information that may be used to identify a source of elevated bacteria levels in a nearby tidewater area of Rockhold Creek. The field team investigated the site at 12:43 p.m. on Wednesday, July 10, 2019. The most recent rainfall prior to the site visit had occurred on July 8, and the antecedent dry time was approximately 52 hours. The air temperature at the time of the site visit was 84 °F. On July 10, the team observed that the storm drain outfall was dry. The team investigated the inlets leading to the outfall and found standing water, which had a green tint (Figure 2), at inlet Q34C8I00003. The inlet drained a narrow ditch at the west edge of a residential lot (Figure 3). As the outfall did not exhibit flowing water, the team collected a sample of the standing water at the inlet to test for a suite of water quality parameters. The results of the chemical tests are shown in Table 1. Although the test results indicated measurable levels of some of the parameters, none of the concentrations were at or above the corresponding action level, as specified by Anne Arundel County's Illicit Discharge Detection and Elimination Standard Operating Procedures.

As a reminder, an illicit discharge is any discharge to a storm sewer system that is not composed entirely of stormwater, except for discharges allowed under an NPDES permit (e.g., footer drains, firefighting operations). Field teams consider the relative concentrations of the tested parameters as clues when they infer possible pollution sources for suspected illicit discharges. As an example, concentrations of chlorine and detergents higher than program action levels may be indicators of wastewater or graywater in effluent. High levels of ammonia may also indicate the degradation of organic material in runoff. Water temperatures above 75 °F could also contribute to the evidence of a possible wastewater influence on a stormwater pipe network. A detectable odor of sewage in the storm drain system discharge would be an obvious clue to the possible presence of sewage in the pipe system.

Referring to the field test results found in Table 1, the relatively high temperature of the sample likely reflected the exposure of the stagnant water to direct sunlight, and thus could not reliably be used as an indicator. The sample did not exhibit a detectable odor or color. The test results indicated measurable levels of the three analytes (chlorine, detergents, and ammonia), but none of the readings exceeded the program criteria that would indicate the potential for non-stormwater discharges. Thus, the field team did not document conclusive evidence to support an inference that the stormwater runoff through the network connected to outfall Q34O002 had been conveying sewage with its discharge.

The team investigated the conditions in the vicinity of the outfall and along the drainage path from the outfall to the waterway, Rockhold Creek. The team did not observe signs of solid waste or damage to the sanitary sewer network near the outfall. The ditch that conveyed the outfall drainage toward the creek discharged to an open parcel directly behind the lot on the southeast side of the intersection of Deale Place and Park Place. The team documented that the discharge

extent broadens when it reaches a larger and flatter floodplain downstream of the south end of the ditch (Figure 4). It is here that the team documented the presence of approximately 45 geese and the tracks of many geese in the mud associated with the discharge path. The team surmised that if the geese frequent this area, goose droppings may be concentrated near the cove of the creek which abuts the western boundary of the open lot. If so, stormwater discharge may transport bulk material and leachate from the droppings into the cove at this location. The accumulated feces may be contributing to the growth in the populations of bacteria in the creek. An area map is provided in Figure 5.



Figure 1. A view of the outfall Q34O002





Figure 2. A view of the standing water in the pipe of inlet Q34C8I00003



Figure 3. A view of the narrow ditch that drains toward inlet Q34C8I00003; the inlet headwall is seen in the foreground

Table 1. Chemical test results and corresponding action levels for parameters tested for the water sample collected from inlet Q34C8I00003		
	<b>Action Level</b>	<b>Test Result</b>
pH	$\leq 6.5$ or $\geq 8.5$	7.05
Temperature (°F)		83.9
Ammonia (mg/L)	$\geq 1$	0.25
Total Chlorine (mg/L)	$\geq 0.4$	0.30
Detergents (mg/L)	$\geq 0.5$	0.1
Fluoride (mg/L)	$\geq 0.75$	0.0
Phenols (mg/L)	$\geq 0.17$	0.0
Copper (mg/L)	$\geq 0.21$	0.0



Figure 4. A view of the flat plain that receives and distributes the discharge from the outfall see in Figure 1 and the drainage ditch seen in Figure 2; Rockhold Creek is visible in the background of the photograph



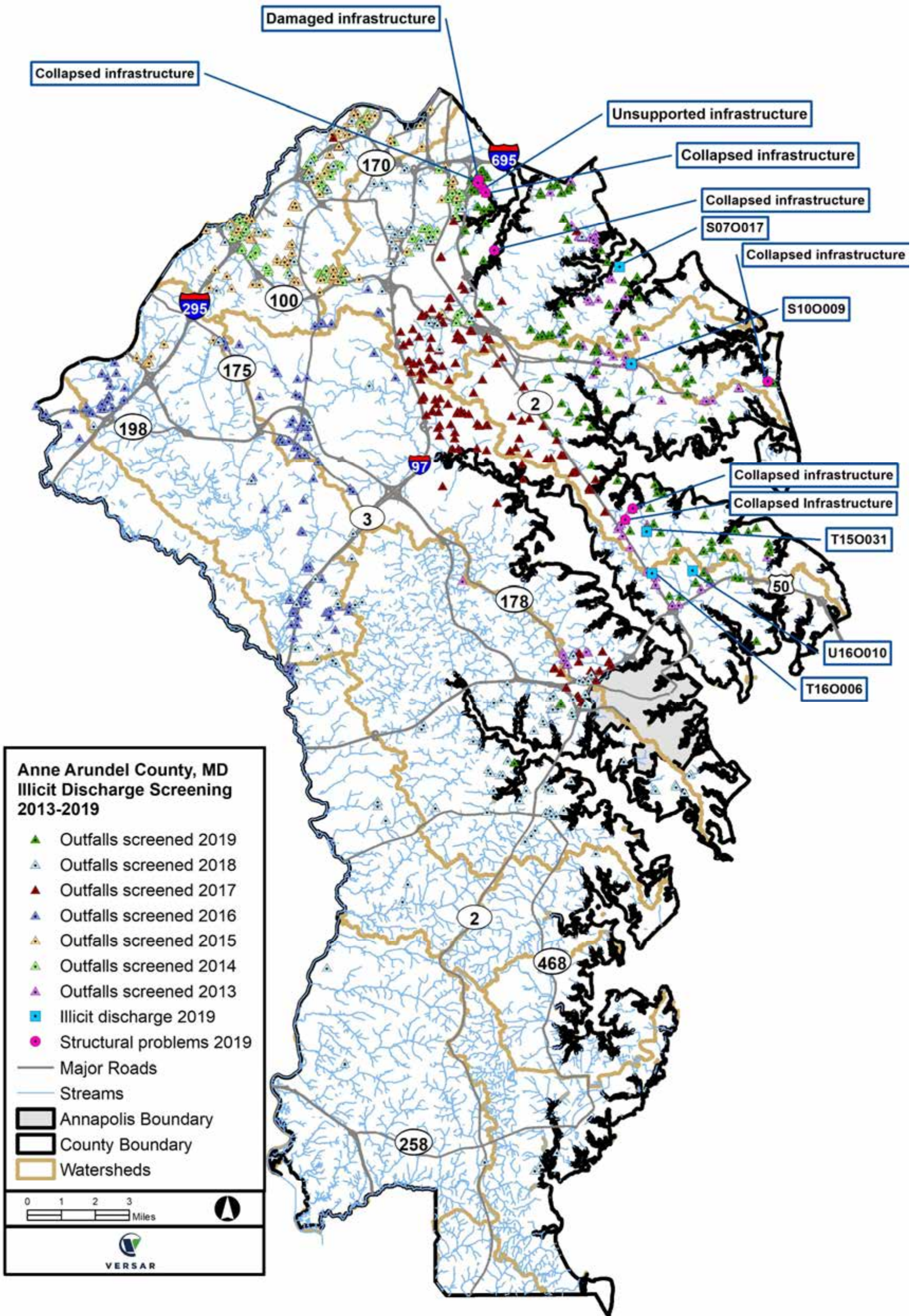
Figure 5. Area map

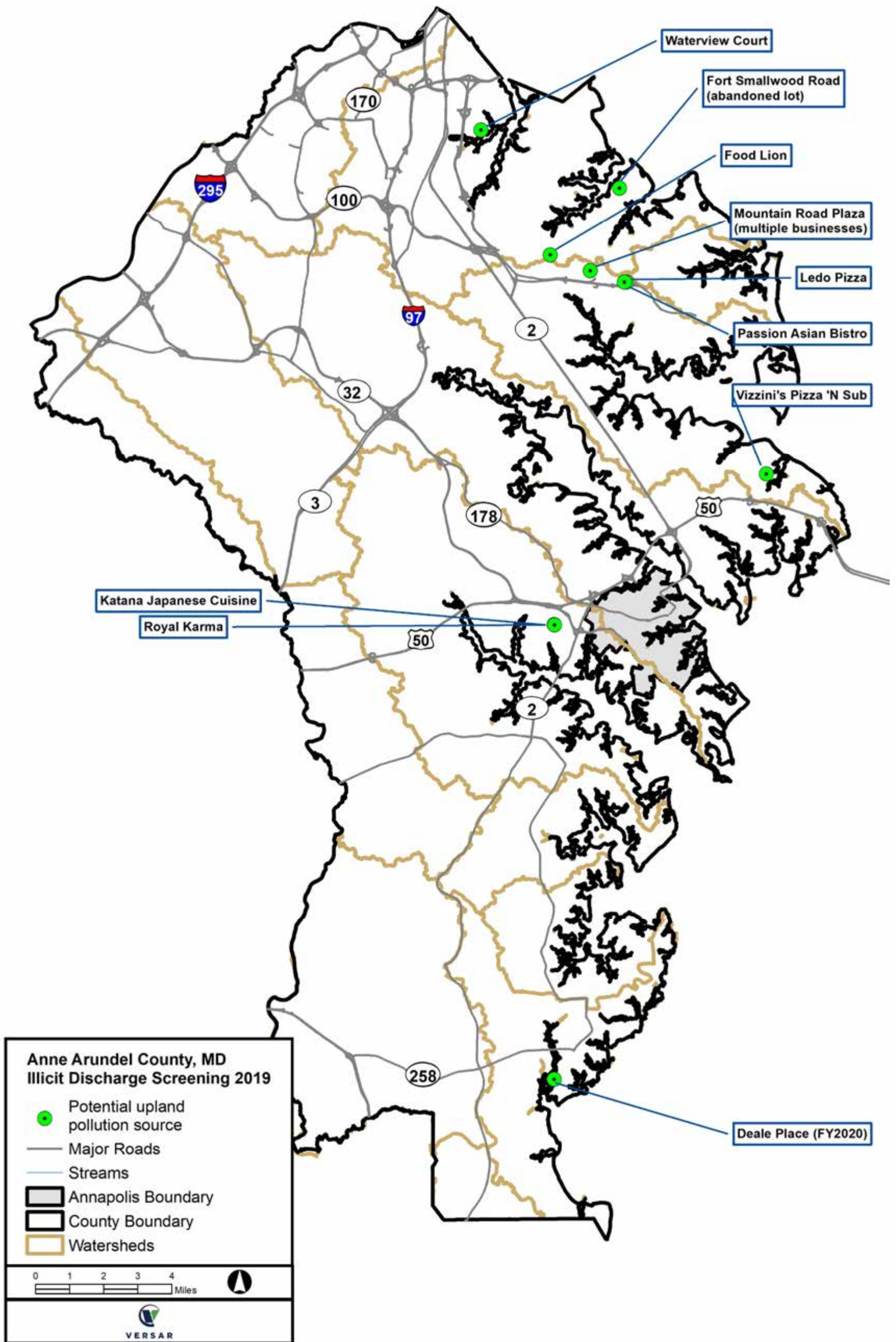


## APPENDIX D

### MAPS









**APPENDIX E**

**MDE-PROGRAM-COMPATIBLE TABLE FOR  
ILLCIT DISCHARGE DETECTION PROGRAM INSPECTIONS**



**APPENDIX F**  
**COUNTY INSPECTION COMPLIANCE**  
**DATABASE REPORTS**





### Complainant Information

Source Person

[Redacted] Last Name (XXX)-XXX-XXXX Email

### Case Information

Complaint Environment ILLEGAL DISCHARGES COMPLAINT

Summary RAW SEWAGE COMPLAINT

Address 500005438300

0 [Redacted] [Redacted]

GLEN BURNIE State 21061

Subdivision GLEN BURNIE

Location Details Location Details

Received Date 07/03/2018 07:56 AM System ID 71812

Tickler Date 06/21/2019 12:57 PM Case ID E-2018-472

Completed Date 07/03/2018 12:00 AM

Receiver [Redacted]

### Owner Information

First Name Last Name (XXX)-XXX-XXXX

Owner, Second Name

Company Name Email

Address House Number Street Name Street Type

City State Zip

### Violator Information

Set Violator Same as Owner

First Name Last Name (XXX)-XXX-XXXX

Violator Second Name

Company Name

Address House Number Street Name Street Type

City State Zip

### Assignment Information

Date Assigned 07/03/2018 12:00 AM

Inspector Select: Supervisor Select:

Permit Number Waterfront N

Warning ✖

Please, select row

Original Case ID	<input type="text"/>	Critical Area	<input type="text" value="N"/>
ADC Map	<input type="text"/>	Cty. Council	<input type="text" value="N"/>
Case Organization	<input type="text"/>		

### Case Details

RAW SEWAGE COMPLAINT

### Active Permit Application Information

Type	Permit #	Status
B	2229174	Completed
B	2236171	Canceled
B	2257855	Completed

Type	Permit #	Status
B	2280424	Completed
B	2280633	Completed
E	2201621	Completed
G	2012666	Completed
T	2024789	Completed

## Other Cases On This Property

Case #	Received Date	Status	Summary
<a href="#">Z-2018-146</a>	2/27/2018	Open	
<a href="#">E-2018-816</a>	11/15/2018	Review	POSSIBLE FOREST CONSERVATION VIOLATION.
<a href="#">E-2013-57</a>	2/13/2013	Closed	
<a href="#">B-2011-701</a>	8/17/2011	Closed	TRAILERS, SUPPOSE TO BE REMOVED 2009, OUT OF SCOPE
<a href="#">B-2011-702</a>	8/17/2011	Closed	TRAILERS, SUPPOSE TO BE REMOVED 2009, OUT OF SCOPE
<a href="#">E-2011-480</a>	8/17/2011	Closed	PARKING LOT ACCORDING TO PLANS
<a href="#">Z-2011-1087</a>	9/27/2011	Closed	
<a href="#">E-2011-773</a>	12/2/2011	Closed	
<a href="#">B-2009-537</a>	6/24/2009	Closed	TENT
<a href="#">E-2008-21</a>	1/14/2008	Closed	
<a href="#">E-2007-843</a>	8/27/2007	Closed	

## Related Cases

type a case number or click to see related cases

Closed

## Case Timeline



### CLOSE COMPLAINT

THERE IS NO EVIDENCE OF ANY PORTA-POTTY BUSINESS ON SITE OR ANY RAW SEWAGE DISCHARGE INTO SAW MILL CREEK. THIS COMPLAINT CAN BE CLOSED.

JULY 3, 2018 by: undefined



### OPENED COMPLAINT CASE

JULY 3, 2018 by: undefined

Created on Jul 03, 2018 by 







### Complainant Information

Source LegacySystem

### Case Information

Complaint Environment GENERAL COMPLAINT/INFORMATION NEEDED

Summary

Address

[Redacted]

[Redacted]

[Redacted]

Subdivision

[Redacted]

Location Details Location Details

Received Date 07/10/2018 08:55 AM System ID 71849

Tickler Date 06/21/2019 01:00 PM Case ID E-2018-485

Completed Date 07/12/2018 12:00 AM

Receiver [Redacted]

### Owner Information

First Name Last Name (XXX)-XXX-XXXX

Owner, Second Name

Company Name Email

Address House Number Street Name Street Type

City State Zip

### Violator Information

Set Violator Same as Owner

First Name Last Name (XXX)-XXX-XXXX

Violator Second Name

Company Name

Address House Number Street Name Street Type

City State Zip

### Assignment Information

Date Assigned 07/10/2018 12:00 AM

Warning

Inspector [Redacted] (current caseload: 15) Superv Please, select row Select:

Permit Number Waterfront N

Original Case ID Critical Area N

ADC Map

Cty. Council

Case Organization

## Case Details

## Active Permit Application Information

Type	Permit #	Status

## Other Cases On This Property

Case #	Received Date	Status	Summary

## Related Cases

## Related Cases

type a case number or click to see related cases

Closed

## Case Timeline



### CLOSE COMPLAINT

CLOSE COMPLAINT. INSPECTION REVEALED THAT THEY WAS SOME CONCRETE WASH OUT REMNANTS DOWN ON THE GROUND. THERE WAS NOT A VIOLATION AT THE TIME OF INSPECTION. [REDACTED]

JULY 12, 2018 by: undefined



### OPENED COMPLAINT CASE

ORIGINAL COMPLAINT RECEIVED JULY 7TH, 2018. CONCRETE DEPOSIT WERE DUMPED IN THE GUTTERING ON [REDACTED] AND TRAVELED DOWN INTO THE STORM DRAIN. THE CONCRETE WORK WAS PERFORMED AT [REDACTED] ON JULY 10TH, [REDACTED] ASSIGNED THIS COMPLAINT TO INSPECTOR [REDACTED] FOR FURTHER INVESTIGATION. INSPECTOR [REDACTED] WILL INVESTIGATE THIS COMPLAINT AND CONDUCT AN INSPECTION ON JULY 10TH, 2018.

JULY 10, 2018 by: undefined

Created on Jul 10, 2018 by [REDACTED]





### Complainant Information

Source LegacySystem

### Case Information

Complaint Environment ILLEGAL DISCHARGES COMPLAINT

Summary PAINT CANS STORED ADJACENT TO SWM INLET DRAIN

Address [Redacted]

[Redacted] [Redacted] [Redacted]

[Redacted] State [Redacted]

Subdivision [Redacted]

Location Details Location Details

Received Date 07/19/2018 12:00 AM System ID 71916

Tickler Date 06/21/2019 01:02 PM Case ID E-2018-501

Completed Date 07/19/2018 12:00 AM

Receiver [Redacted]

### Owner Information

First Name Last Name (XXX)-XXX-XXXX

Owner, Second Name

Company Name Email

Address House Number Street Name Street Type

City State Zip

### Violator Information

Set Violator Same as Owner

[Redacted] Last Name (XXX)-XXX-XXXX

Violator Second Name

Company Name

Address House Number 2644 CHAPEL LAKE DRIVE Street Type

City GAMBRILLS, MD 21054 Zip

### Assignment Information

Date Assigned 07/19/2018 12:00 AM

Inspector [Redacted] (current caseload: 11) Supervisor Select:

Permit Number Waterfront N

Original Case ID Critical Area N

ADC Map Cty. Council N

Case Organization

Warning Please, select row

## Case Details

PAINT CANS STORED ADJACENT TO SWM INLET DRAIN

## Active Permit Application Information

Type	Permit #	Status

## Other Cases On This Property

Case #	Received Date	Status	Summary

## Related Cases

type a case number or click to see related cases

Closed ▼

## Case Timeline

 CLOSE COMPLAINT

 CLOSE COMPLAINT

PAINT CANS HAVE BEEN REMOVED AND ARE NO LONGER STORED ADJACENT TO SWM INLET.

JULY 19, 2018 by: undefined

 Note

COUNTY THIRD PARTY INSPECTION PERFORMED BY VERSAR ON 03/16/2018 AND DISCOVERED STORED PAINT CANS EXPOSED IN THE REAR OF THE BUILDING IN SHOPPING CARTS ADJACENT TO THE SWM INLET. INSPECTOR [REDACTED] AND INSPECTOR [REDACTED] CONDUCTED A FOLLOW UP INSPECTION ON 07/18/2018, TO VERIFY THE PAINT CANS HAVE BEEN REMOVED AND PROPERLY STORED. SITE INSPECTION REVEALED THAT ALL PAINT CANS HAVE BEEN REMOVED AND NO LONGER STORED ADJACENT TO THE SWM INLET.

JULY 19, 2018 by: undefined

 OPENED COMPLAINT CASE

JULY 19, 2018 by: undefined

Created on Jul 19, 2018 by [REDACTED]







### Complainant Information

Source LegacySystem

### Case Information

Complaint Environment ILLEGAL DISCHARGES COMPLAINT

Summary

Address

[Redacted]

[Redacted] State [Redacted]

Subdivision

Location Details

Received Date 07/27/2018 08:17 AM System ID 72027

Tickler Date 08/03/2018 12:00 AM Case ID E-2018-528

Completed Date 09/18/2018 03:06 PM

Receiver [Redacted]

### Owner Information

First Name Last Name (XXX)-XXX-XXXX

Owner, Second Name

Company Name Email

Address House Number Street Name Street Type

City State Zip

### Violator Information

Set Violator Same as Owner

[Redacted] Last Name (XXX)-XXX-XXXX

Violator Second Name

Company Name

Address House Number [Redacted] Street Type

[Redacted] State Zip

### Assignment Information

Date Assigned 07/27/2018 12:00 AM

Inspector [Redacted] (current caseload: 1) Supervisor [Redacted]

Permit Number Waterfront N

Original Case ID Critical Area N

ADC Map Cty. Council N

Case Organization

Warning Please, select row

## Case Details

Date	<input type="text" value="09/18/2018 03:03 PM"/>	Fine	<input type="text" value="\$ 0"/>
Due Date	<input type="text" value="09/18/2018 03:03 PM"/>	Amount Paid	<input type="text" value="\$"/>
Req Trial Date	<input type="text" value="09/18/2018 03:03 PM"/>	Fine Due Date	<input type="text" value="09/18/2018 03:03 PM"/>
		Fine Paid Date	<input type="text" value=""/>

Details

INSPECTION BY INSPECTOR [REDACTED] ON 9/17/2018 SHOWED NO NEW SIGNS OF OIL LEAKING. WORK HAS BEEN DONE TO CLEAN UP HOME AND YARD.

Citation #  Resolved

## Active Permit Application Information

Type	Permit #	Status

## Other Cases On This Property

Case #	Received Date	Status	Summary

## Related Cases

Closed ▾

## Case Timeline +

First Closed on Sep 18, 2018 by [REDACTED]

Last updated on Sep 18, 2018 by [REDACTED]

### CLOSE COMPLAINT

INSPECTION BY INSPECTOR [REDACTED] ON 9/17/2018 SHOWED NO NEW SIGNS OF OIL LEAKING. WORK HAS BEEN DONE TO CLEAN UP HOME AND YARD.

SEPTEMBER 18, 2018 by: iphall75

### Note

INSPECTIONS BY INSPECTOR [REDACTED] ON 8/20/2018 AND 8/28/2018 SHOWED NO NEW SIGNS OF OIL DISCHARGE. TANK SOUNDS NEARLY EMPTY.

SEPTEMBER 6, 2018 by: iphall75

### Note

INSPECTOR [REDACTED] SPOKE WITH [REDACTED] FROM MDE WHO STATED THAT MDE WAS REACHING OUT TO HOMEOWNER AND FAMILY TO GET SPILL CLEANED UP. MDE HAS TAKEN CHARGE OF INVESTIGATION. INSPECTOR [REDACTED] WILL CONTINUE TO FOLLOW UP WITH NEXT INSPECTION ON 22 AUGUST 2018

AUGUST 9, 2018 by: undefined

### OPENED COMPLAINT CASE

ADJACENT PROPERTY OWNER INFORMED INPSPECTOR [REDACTED] OF AN OIL TANK LEAKING OUTSIDE OF THE PROPERTY. UPON INSPECTION INSPECTOR [REDACTED] NOTICED OIL LEAKING FROM THE THE CONTAINER. OIL TRAIL LEADS TO BACK OF HOUSE WHICH BORDERS MARSH. EMAIL WAS SENT TO MDE

JULY 27, 2018 by: undefined

### Note

EMAIL FROM [REDACTED] AT MDE STATES THAT OIL CONTROL PROGRAM HAS ASSIGNED AN INSPECTOR AND WILL FOLLOW UP

JULY 27, 2018 by: undefined

Created on Jul 27, 2018 by [REDACTED]





### Complainant Information

Source

### Case Information

Complaint

Summary

Address

Subdivision

Location Details

Received Date  System ID

Tickler Date  Case ID

Completed Date

Receiver

### Owner Information

First Name  Last Name

Owner, Second Name

Company Name  Email

Address

### Violator Information

Set Violator Same as Owner

First Name  Last Name

Violator Second Name

Company Name

Address

### Assignment Information

Date Assigned

Inspector  Supervisor

Permit Number  Waterfront

Original Case ID  Critical Area

ADC Map  Cty. Council

Case Organization

Warning  Please, select row

## Case Details

### Active Permit Application Information

Type	Permit #	Status

### Other Cases On This Property

Case #	Received Date	Status	Summary

### Related Cases

type a case number or click to see related cases

Closed ▼

## Case Timeline

First Closed on Oct 30, 2018 by ██████████

Last updated on Oct 30, 2018 by [REDACTED]

## CLOSE COMPLAINT

The complaint can be closed. \$ field inspection were done over a 45 day time frame and no violation was found. Close complaint.

OCTOBER 30, 2018 by: IP [REDACTED]

## Note

No violation found at the time of inspection on 8/31/2018.

SEPTEMBER 4, 2018 by: IP [REDACTED]

## Note

Inspection on 8/22/2018 revealed water running down the street along the side. No water was visibly coming out of the hill side from the any home or pipe. Inspector [REDACTED] will continue to monitor this situation.

AUGUST 22, 2018 by: IP [REDACTED]

## Note

The following complaint came in. Inspector [REDACTED] will be inspecting this site. I have complained about this before and it is still ongoing. Daily this home owner appears to be releasing their pool backwash onto the side street ([REDACTED]) and it causes algae growth, standing water puddles, and white residue (I assume its chlorine or salt) on the street. The wet zone starts emminating out of the grassy strip near their wood fence and runs all the way down the street. Although most noticeable in the summer, this happens year round. It can be dry for days and this discharge happens suggesting its not a sump pump draining rainwater.

AUGUST 21, 2018 by: IP [REDACTED]

Created on Aug 21, 2018 by [REDACTED]







### Complainant Information

Source

### Case Information

Complaint

Summary

Address

Subdivision

Location Details

Received Date  System ID

Tickler Date  Case ID

Completed Date

Receiver

### Owner Information

Company Name  Email

Address

### Violator Information

Set Violator Same as Owner

Company Name

Address

### Assignment Information

Date Assigned

Inspector  Supervisor

Permit Number  Waterfront

Original Case ID  Critical Area

ADC Map  Cty. Council

Case Organization

Warning  Please, select row

## Case Details

POOL DRAINAGE COMPLIANT

## Active Permit Application Information

Type	Permit #	Status

## Other Cases On This Property

Case #	Received Date	Status	Summary

## Related Cases

type a case number or click to see related cases

Closed ▼

## Case Timeline

First Closed on Sep 13, 2018 by ██████████

Last updated on Sep 13, 2018 by [REDACTED]

## CLOSE COMPLAINT

HOMEOWNER HAS AGREED TO NOT DISCHARGE CHLORINATED POOL WATER INTO STORM DRAIN SYSTEM. COMPLAINT WILL BE CLOSED. INSPECTOR [REDACTED] WILL PERIODICALLY INSPECT PROPERTY TO ENSURE NO ILLICIT DISCHARGE IS OCCURRING.

SEPTEMBER 13, 2018 by: ip [REDACTED]

## Note

INSPECTOR [REDACTED] SPOKE WITH HOMEOWNER ON 9/11/ 2018. HOMEOWNER HAS AGREED TO DRAIN BACKFLUSH WATER ONTO PROPERTY AND HAS AGREED NOT TO DISCHARGE CHLORINATED POOL WATER INTO STORM DRAIN SYSTEM. HOMEOWNER HAS AGREED TO PROVIDE DOCUMENTATION OF CHLORINE LEVELS OF POOL WATER TO INSPECTOR [REDACTED] BEFORE DRAINING POOL BELOW SKIMMER LINE.

SEPTEMBER 13, 2018 by: ip [REDACTED]

## Note

INSPECTOR [REDACTED] SPOKE OVER THE PHONE WITH HOMEOWNER ABOUT DISCHARGING POOL WATER INTO STORM DRAIN SYSTEM. HOMEOWNER HAS AGREED TO STOP DISCHARGING CHLORINATED WATER INTO STORM DRAIN SYSTEM.

SEPTEMBER 10, 2018 by: ip [REDACTED]

## OPENED COMPLAINT CASE

COMPLAINT RECEIVED FOR ILLICIT DRAINAGE OF POOL AT [REDACTED]. INSPECTOR [REDACTED] WILL INVESTIGATE CASE ON 9/6/2018

SEPTEMBER 6, 2018 by: ip [REDACTED]

Created on Sep 06, 2018 by [REDACTED]





### Complainant Information

Source Person

### Case Information

Complaint Environment ILLEGAL DISCHARGES COMPLAINT

Summary COUNTY FLEET WASHING SERVICES PROVIDED BY CRAGSMAN FLEET SERVICES DISCHARGING ILLICIT SOAPY DISCHARGE INTO BEAR BI

Address 300000474535

Subdivision Subdivision

Location Details MOBILE FLEET WASHING ILLICIT SOAPY DISCHARGE AT INLET 2ND VIOLATION

Received Date 09/20/2018 10:35 AM System ID 72769

Tickler Date 04/30/2019 10:00 AM Case ID E-2018-697

Completed Date

Receiver

### Owner Information

Address

### Violator Information

Set Violator Same as Owner

Address

### Assignment Information

Date Assigned 09/20/2018 10:35 AM

Inspector  Supervisor

Permit Number

Original Case ID   N

ADC Map   N

Case Organization

### Case Details

COUNTY FLEET WASHING SERVICES PROVIDED BY CRAGSMAN FLEET SERVICES DISCHARGING ILLICIT SOAPY DISCHARGE INTO BEAR BRANCH. FAILURE TO USE REQUIRED INLET PROTECTION AND WATER RECLAMATION DEVICES.

### Active Permit Application Information

Type	Permit #	Status

### Other Cases On This Property

Case #	Received Date	Status	Summary

### Related Cases

70646 x
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Open ▼

### Case Timeline +

Last updated on Feb 08, 2019 by ██████████



INSPECTOR [REDACTED] EMAILED WITH CRAGSMAN FLEET OWNER, [REDACTED] ON 2/6/2019, REGARDING IF THE CUSTOM INLET COVERS WILL BE USED DURING THE FEBRUARY WASH DATES. MR. [REDACTED] RESPONDED VIA EMAIL AND THEN CALLED INSPECTOR [REDACTED] TO EXPLAIN THAT THE 6 FT INFLATABLE CULVERT PIPE BLADDER BAG WAS PURCHASED IN LIEU OF THE CUSTOM INLET COVERS AS HE WAS ADVISED THAT THE INLET COVERS LEAK. INSPECTOR [REDACTED] EXPLAINED THAT SPECIFICALLY THE MILLERSVILLE INLET BOX IS OLDER CONSTRUCTED OF BRICK AND MORTAR WHICH IS LEAKING AT THE JOINTS AND MORTAR POINTS BETWEEN BRICKS. ADDITIONALLY THE INLET BOX IS PITCHED TO DRAIN STORMWATER INTO THE CULVERT PIPE BUT DESPITE A SEAL TIGHT FIT WITH THE BLADDER BAG, THE SOAPY WASH WATER IS LEAKING AND THERE IS NO OPTION TO SIPHON OUT THE COLLECTED SOAPY WASH WATER. [REDACTED] WAS FRUSTRATED AT THE EXPENSE OF THE BLADDER BAG OF \$2K AND THE NEED TO STILL IMPROVE RECLAMATION EFFORTS AT MILLERSVILLE. INSPECTOR FORD EXPLAINED THAT AS REQUESTED SEVERAL TIMES, REPLACE THE FILTER LOG WITH AN ABSORBENT BOOM AND TURN ON THE RECLAMATION DRUM MACHINE WITH THE SIPHON HOSE RUNNING TO INTERCEPT THE WATER PRIOR TO THE WATER REACHING THE INLET. [REDACTED] EXPRESSED THAT HE WAS "LOSING HIS SHIRT" WITH THE CONTRACT AND THAT HE WANT TO SUGGEST AN ALTERNATIVE LOCATION IN MILLERSVILLE OR REMOVE THE WASH SITE. [REDACTED] STATED THAT HE WOULD CONTACT [REDACTED], AACO FLEET ADMINISTRATOR TO DISCUSS AN ALTERNATIVE LOCATION IN MILLERSVILLE. INSPECTOR [REDACTED] SUGGESTED THAT HE CHECK THE INLET BOX AT THE ALTERNATIVE LOCATION(S) TO ENSURE THE INFLATABLE BLADDER BAG WILL BE EFFECTIVE AND OPERATIVE.

FEBRUARY 8, 2019 by: ip [REDACTED]

## Note

ON 1/25/2019, AT 1330 HOURS INSPECTOR [REDACTED] CONDUCTED THE WASH SERVICES AT MILLERSVILLE LOCATION. UPON INSPECTION IT WAS OBSERVED THAT THE 6 FT INFLATABLE BLADDER BAG WAS CORRECTLY INSTALLED IN THE RECEIVING INLET, HOWEVER, THE INLET WAS MADE OF BRICK AND MORTAR AND WASH WATER WAS LEAKING THROUGH THE BRICK POINTS AND JOINTS AND WAS NOT SIPHONED OUT DUE TO THE PERPETUAL SEEPING. THE RECLAMATION SIPHON STRIP WAS NEAR THE INLET BUT WAS NOT TURNED ON AND WAS NOT FUNCTIONING. ADDITIONALLY THE STORMWATER INLET GRATE WAS MISSING A CROSS MEMBER BAR THAT HAD PREVIOUSLY RUSTED AND HAD SNAPPED OFF WHEN THE INLET GRATE WAS BEING LIFTED OFF WITH A FORK LIFT. INSPECTOR [REDACTED] SPOKE WITH CREW LEAD [REDACTED], AND ADVISED THAT THERE WAS STILL WASH WATER LEAKING OUT OF THE INLET AND INQUIRED IF THE CUSTOM INLET COVERS WOULD BE READY FOR THE NEXT WASH DATE. [REDACTED] DID NOT KNOW AND AGAIN INSPECTOR [REDACTED] REQUESTED THAT THE SIPHON STRIP BE TURNED ON AND THAT THE FILTER LOG SURROUNDING THE INLET BE REPLACED BY AN ABSORBENT BOOM.

FEBRUARY 6, 2019 by: ip [REDACTED]

## Note

ON 1/17/2019, AT 350 CENTRAL AVE INSPECTOR [REDACTED] CONDUCTED AN ON-SITE INSPECTION OF FLEET WASHING SERVICES SET-UP. OWNER, [REDACTED] WAS NOT ON SITE DURING INSPECTION, HOWEVER, HIS ON-SITE CREW LEAD FRED STATED THAT IN PLACE OF THE OF THE CUSTOM INLET COVERS MENTIONED DURING THE DEC 2018 CENTRAL SERVICES MEETING, CRAGSMAN IS USING A SIX FOOT INFLATABLE BLADDER BAG THAT HAS BEEN POSITIONED INSIDE THE ADJACENT INLET STORM DRAIN PIPE TO PREVENT ANY DISCHARGE FROM FLOWING INTO THE COUNTY STORMWATER SYSTEM. THEY WILL PERIODICALLY THROUGHOUT THE DAY SIPHON OUT ANY WATER THAT HAS PASSED THE FILTER LOG PROTECTION AROUND THE OUTSIDE OF THE PERIMETER OF THE INLET. INSPECTION OF THE RECLAMATION WASH TRAY APPEARS TO BE WATERTIGHT AND LEAKS WERE NOT APPARENT. ALL ROAD GRIT AND SEDIMENT IN THE WASH TRAY WILL ALSO BE SIPHONED INTO THE TANK AND REMOVED FROM THE SITE TO BE PROPERLY DISPOSED OF AT A WASTE DEPOSIT FACILITY. A BACKUP SIPHON STRIP RECLAMATION DRUM WAS ALSO AVAILABLE AND ON STANDBY BY THE INLET. UPDATE EMAIL SENT WITH PICTURES TO [REDACTED] AS FOLLOW-UP.

FEBRUARY 6, 2019 by: ip [REDACTED]

## NOT IN COMPLIANCE

THIS IS THE 5TH VIOLATION ISSUED TO CRAGSMAN FLEET SERVICES UNDER COMPLAINT E-2018-162 AND E-2018-697. DURING A FOLLOW-UP INSPECTION OF FLEET WASHING SERVICES CONDUCTED ON 11/28/2018, AT 1145 HOURS, AT THE COUNTY FACILITY LOCATED AT 435 MAXWELL FRYE FUEL COMPLEX, MILLERSVILLE, INSPECTOR [REDACTED] OBSERVED THAT NO INLET PROTECTION WAS IN PLACE NOR WAS THE USE OF A SIPHON STRIP RECLAMATION SYSTEM AT INLET TO REMOVE SOAPY ILLICIT DISCHARGE. THIS REQUEST FOR PROPER INLET PROTECTION WAS CITED PREVIOUSLY IN THE 03/26/2018, 04/07/2018, AND 9/19/2018, CORRECTION NOTICES AND REQUIRES IMMEDIATE COMPLIANCE PRIOR TO THE NEXT SCHEDULED FLEET WASH DATE. ZERO TOLERANCE OF FAILURE TO ESTABLISH PROPER SOAPY ILLICIT DISCHARGE RECLAMATION CONTROLS AND INLET PROTECTION APPLIES TO ALL FUTURE WASH DATES AND LOCATIONS. ADDITIONALLY, VEHICLES UNDERCARRIAGES AND TIRES WERE NOT FULLY RINSED PRIOR TO EXITING THE WASH TRAY WHICH TRACKED SOAP ON TO THE ASPHALT ADJACENT TO THE STORMWATER INLET. FURTHER, THE WASH TRAY SHALL BE SIPHONED PRIOR TO SIGNALING THE DRIVER TO PULL THEIR VEHICLE OUT OF THE WASH TRAY TO PREVENT SOAP TRACKING ONTO THE ASPHALT FROM THEIR TIRES. THIS WAS DOCUMENTED TO BE AN ISSUE AFTER INSPECTOR [REDACTED] OBSERVED OTHER VEHICLES TRACKING SOAP SUDS OUT OF THE TRAY BY THESE MEANS. RECLAMATION TRAY WALLS MUST CONTAIN ALL ILLICIT SOAPY DISCHARGE IN THE WASH TRAY OR BE REPLACED IF FAILING ALLOWING ILLICIT SOAPY DISCHARGE AS OBSERVED AND PHOTO DOCUMENTED ON 11/28/2018. ALL PREVIOUSLY CITED RECOMMENDATIONS REMAIN IN FORCE AND SHALL BE ADHERED TO. INSPECTOR [REDACTED] REQUESTED OF [REDACTED], CRAGSMAN FLEET SERVICES ON-SITE SUPERVISOR TO CEASE USING SOAP FOR THE REMAINDER OF THE WASH DAY AND USE ONLY WATER SINCE PROPER INLET PROTECTION AND RECLAMATION WAS

NOT SET-UP. INSPECTOR [REDACTED] RECEIVED INFORMATION FROM INSPECTIONS AND PERMITS INSPECTOR [REDACTED] THAT CRAGSMAN FLEET SERVICES CONTINUED TO USE SOAP AND DID NOT ADHERE TO REQUEST. INSPECTOR [REDACTED] HAD HIS COUNTY VEHICLE WASHED AT THE 435 MAXWELL FRYE LOCATION ON 11/28/2018, AT 1445 HOURS.

DECEMBER 7, 2018 by: ip [REDACTED]

## NOT IN COMPLIANCE

INSPECTOR [REDACTED] ARRIVED AT 0815 HOURS ON 09/26/2018, AT THE COUNTY SOUTHERN DISTRICT ROADS YARD FOR THE SCHEDULED MOBILE FLEET WASHING SERVICES PROVIDED BY CRAGSMAN FLEET SERVICES. UPON ARRIVAL INSPECTOR [REDACTED] FOUND THAT WASHING SERVICES HAD NOT YET COMMENCED AS FLEET WASHING ON-SITE CREW LEAD, [REDACTED] WAS AWAITING THE SIPHON TANK TO BE DELIVERED BY CRAGSMAN OWNER, [REDACTED]. WASHING SERVICES COMMENCED BY 0840 HOURS AND INSPECTOR [REDACTED] DETERMINED THAT THE PATCHED RECLAMATION TRAY HAD BEEN REPLACED WITH A NEW, WATERTIGHT TRAY. THE INLET PROTECTION REQUIRES REPLACEMENT FROM A WOOD CHIPPED FILTER LOG INTENDED FOR EROSION AND SEDIMENT CONTROL MEASURES TO AN ABSORBENT TYPE BOOM SPECIFIC FOR SPILL CLEAN UP. THE WOOD CHIPPED FILTER LOG WILL NOT BE AS EFFECTIVE FOR PREVENTION OR ABSORPTION AS A FABRIC MATERIAL TYPE BOOM. THIS REQUEST FOR PROPER INLET PROTECTION WAS CITED IN ORIGINAL COMPLAINT E-2018-167 AND REQUIRES IMMEDIATE COMPLIANCE.

SEPTEMBER 27, 2018 by: ip [REDACTED]

## ILLEGAL DISCHARGES VIOLATION

INSPECTOR [REDACTED] ARRIVED AT THE COUNTY MAXWELL FRYE ROAD COMPLEX, MILLERSVILLE LOCATION FOR FLEET WASHING SERVICES ON 09/19/2018 AT 1350 HOURS FOR VEHICLE WASHING SERVICES. UPON ARRIVING, INSPECTOR [REDACTED] OBSERVED TWO CONTRACTORS WITH CRAGSMAN FLEET SERVICES WASHING VEHICLES UTILIZING A RECLAMATION TRAY AND SIPHONING SYSTEM INTO A 600 GALLON TANK. INSPECTOR [REDACTED] OBSERVED SOAPY WATER LEAKING FROM SEVERAL AREAS FROM THE TRAY. UPON CLOSER INSPECTION, THE TRAY HAD BEEN PATCHED IN MULTIPLE AREAS WITH DUCT TAPE. THE DUCT TAPE PATCHES WERE NOT WATERTIGHT AND LEAKING SOAPY WASH WATER TOWARD THE COUNTY INLET THAT OUTFALLS INTO BEAR BRANCH. ADDITIONALLY, THE INLET WAS NOT PROTECTED WITH REQUIRED BOOMS AND WATER RECLAMATION SIPHON STRIP AS REQUIRED. INSPECTOR [REDACTED] CHECKED THE OUTFALL AND CEMENT BOX INLET WHICH DISCHARGES INTO BEAR BRANCH. THERE WAS NO VISUAL EVIDENCE OF SOAP SUDS BUT DOES NOT CONFIRM THAT THERE WAS NO DETERGENTS DISCHARGING. INSPECTOR [REDACTED] REQUESTED THAT ON-SITE SUPERVISOR [REDACTED] CONTACT THE OWNER OF CRAGSMAN FLEET SERVICES, [REDACTED] WHOM DID NOT ANSWER THE CALL OR CALL BACK WHILE INSPECTOR [REDACTED] WAS ON-SITE. IN LIEU OF SPEAKING TO BUSINESS OWNER, INSPECTOR [REDACTED] SPOKE WITH ON-SITE SUPERVISOR, [REDACTED] AND ADVISED THAT THEY NEED TO 1) CONTACT CRAGSMAN OWNER TO REQUEST IMMEDIATE DELIVERY OF THE INLET BOOM PROTECTION AND RECLAMATION SIPHON, 2) TO PLACE ALL AVAILABLE TOWELS SURROUNDING THE LIP OF THE INLET AND 3) TO CEASE USING SOAP FOR THE DURATION OF THE DAY OR UNTIL THE INLET PROTECTION IS DELIVERED AND SET-UP. [REDACTED] WAS FURTHER ADVISED THAT THE LEAKING TRAY MUST BE RETIRED AND SHALL NEVER BE USED AGAIN. NEXT FLEET WASHING SERVICES ARE SCHEDULED FOR 09/25/2018 AT THE SOUTHERN DISTRICT ROADS YARD LOCATED AT 350 CENTRAL AVENUE, DAVIDSONVILLE. [REDACTED] WAS ADVISED THAT ALL ABOVE CITED VIOLATIONS NEED TO BE CORRECTED BY THE DAVIDSONVILLE WASH DATE OR THEY WILL BE SHUT DOWN. INSPECTOR [REDACTED] WILL BE CONDUCTING A FOLLOW-UP INSPECTION ON 09/25/2018, AT THE DAVIDSONVILLE COMPLEX.

SEPTEMBER 20, 2018 by: ip [REDACTED]

Created on Sep 20, 2018 by [REDACTED]







### Complainant Information

Source

### Case Information

Complaint

Summary

Address

Subdivision

Location Details

Received Date  System ID

Tickler Date  Case ID

Completed Date

Receiver

### Owner Information

Company Name  Email

Address

### Violator Information

Set Violator Same as Owner

Address

### Assignment Information

Date Assigned

Inspector  Supervisor

Permit Number  Waterfront

Original Case ID  Critical Area

ADC Map  Cty. Council

Case Organization

Warning

## Case Details

ILLICIT DISCHARGE OF HYDROLIC OIL FROM ITREE SERVICES, LLC ON 10/4/2018, WAS NOT CLEANED UP IN CRITICAL AREA STONEY CREEK. DRAINAGE ISSUE WITH STORM DRAIN DUE TO CURB DETERIORATION.

## Active Permit Application Information

Type	Permit #	Status

## Other Cases On This Property

Case #	Received Date	Status	Summary

## Related Cases

type a case number or click to see related cases

Closed ▼

## Case Timeline

First Closed on Nov 26, 2018 by 

Last updated on Nov 26, 2018 by Mary Ford

## Note

ON 01/18/2019, INSPECTOR [REDACTED] RECEIVED MDE INSPECTION REPORTS. REFER TO ATTACHMENT TAB TO VIEW REPORTS.

JANUARY 18, 2019 by: ip [REDACTED]

## CLOSE COMPLAINT

MDE INSPECTION CONDUCTED BY [REDACTED] AND INSPECTOR [REDACTED] ON 10/12/2018. MDE INSPECTION AND ENFORCEMENT IS PRECEDENT TO COUNTY. MS. [REDACTED] WAS TO CONTACT CRANE OPERATOR FOR STAIN CLEAN-UP ACTIONS ON ROADWAY. MDE REPORT TO BE ISSUED. NO FURTHER ACTION ENFORCEABLE BY COUNTY FOR ROADWAY STAINING. COMPLAINANT MAY TAKE FURTHER ACTION WITH BETTER BUSINESS BUREAU.

NOVEMBER 26, 2018 by: ip [REDACTED]

## ILLEGAL DISCHARGES VIOLATION

AT 1315 HRS, INSPECTOR [REDACTED] CONDUCTED AN ON-SITE INSPECTION OF THE REPORTED LOCATION OF THE HYDRAULIC OIL FLUID SPILL AND FOUND EVIDENCE OF THREE (3) AREAS EACH APPROXIMATELY 8 X 10 FT IN SIZE OF STAINING FROM THE HYDRAULIC OIL FLUID. IT IS EVIDENT THAT DESPITE THE LEAK THE CRANE CONTINUED TO OPERATE IN THREE (3) SEPARATE LOCATIONS WHILE LEAKING THE HYDRAULIC FLUID IN A CRITICAL AREA 200 FEET FROM STONEY CREEK AND WITHIN 12 FT OF TWO (2) COUNTY INLETS THAT DRAIN DIRECTLY INTO STONEY CREEK. NO PROTECTIVE SPILL CLEAN-UP ABSORBENT PADS OR BOOMS WERE USED AT THE TIME OF THE ACTIVE LEAK AS REPORTED BY NEIGHBORHOOD RESIDENT WHO WITNESSED THE TREE REMOVAL FROM THE COUNTY ROADWAY. INSPECTOR [REDACTED] SPOKE WITH COMPLAINANT WHO EXPLAINED THERE WAS NO CLEAN UP OF THE HYDRAULIC OIL FLUID BY [REDACTED] OWNER [REDACTED] WHO FURTHER EXPLAINED THAT HE WAS NOT RESPONSIBLE AND THAT THE "RAIN WOULD TAKE CARE OF IT". COMPLAINANT STATED THAT THE SPILL OCCURRED THE PREVIOUS WEEK (9/24-9/28/2018) AND HAD BEEN LEFT WITH NO TREATMENT BY [REDACTED]. [REDACTED] HAD FELLED TWO (2) TREES ON [REDACTED] THAT WERE LEFT IN THE COUNTY ROAD FOR DAYS UNTIL CRANE REMOVED. DURING REMOVAL THE HYDRAULIC LINE SPLIT AND WAS ALLOWED TO DISCHARGED IN SEVERAL LOCATION ON THE ROADWAY UNTREATED. COMPLAINANT SAID SHE MADE SEVERAL ATTEMPTS TO REQUEST THE CLEAN-UP THAT WENT UNANSWERED PRIOR TO CONTACTING THE COUNTY TO FILE A FORMAL COMPLAINT. SINCE [REDACTED] OWNER [REDACTED] HAD NOT RETURNED THE THREE ATTEMPTS INSPECTOR [REDACTED] HAD MADE TO CONTACT HIM ON 10/5/2018, COMPLAINANT PROVIDED INSPECTOR [REDACTED] WITH THE MOBILE NUMBERS OF [REDACTED] OWNER, [REDACTED] AND THE CRANE OWNER, MR. [REDACTED]. AT 1410 HRS INSPECTOR [REDACTED] CALLED THE MOBILE NUMBER OF [REDACTED] AND ADVISED OF THE ILLICIT DISCHARGE VIOLATION OF ARTICLE 16-5-101(5). MR. [REDACTED] WAS ARGUMENTATIVE, DEFENSIVE AND STATED THAT HE "HAD DONE HIS PART AND WAS NOT RESPONSIBLE" FOR THE HYDRAULIC FLUID CLEAN-UP. WHEN ASKED IF THE CRANE COMPANY WAS SUB-CONTRACTED BY [REDACTED] FOR REMOVAL HE REFUSED TO ANSWER AND YELLED "YOU HAVE TO SUE ME IN COURT LADY" AND HUNG THE PHONE UP. [REDACTED] FOLLOWING THE HANG-UP CALLED INSPECTOR [REDACTED] BACK ON THE COUNTY FIELD MOBILE NUMBER AND REQUESTED THE NUMBER OF SUPERVISOR STEVE TRUMPLER WHICH WAS PROVIDED. AFTER NOT RECEIVING COOPERATION FROM [REDACTED] OWNER, [REDACTED] INSPECTOR [REDACTED] CONTACTED CRANE OPERATOR, MR. [REDACTED] WHOM WAS CIVIL AND POLITELY APOLOGIZED FOR THE MISSED CLEAN UP THAT MR. [REDACTED] STATED HE HAD TASKED [REDACTED] TO PERFORM. MR. [REDACTED] WAS ADVISED BY [REDACTED] THAT THE CLEAN UP HAD OCCURRED AND WAS SURPRISED TO BE HEARING THAT A COMPLAINT WAS FILED WITH THE COUNTY. MR. [REDACTED] STATED THAT HE WOULD CALL [REDACTED] IMMEDIATELY AND REQUIRE THE PROPER CLEAN-UP IS PERFORMED. MR. [REDACTED] WAS APOLOGETIC THAT HE PERSONALLY WAS NOT HERE TO HANDLE THE TREE REMOVAL BUT HAD BEEN INJURED AND WAS HOSPITALIZED AT THE TIME. MR. [REDACTED] STATED THAT HE WAS PROTECTIVE OF NATURE AND ANIMALS AND WOULD HAVE NEVER LEFT THE CONDITIONS IN THE STATE WHERE HYDRAULIC FLUID WAS LEFT UNTREATED ON THE STREET IF HE WOULD HAVE BEEN THERE THAT DAY. HE HAS BEEN OPERATING FOR DECADES AND NEVER HAS RECEIVED ANY BAD PUBLICITY OVER A JOB AND DID NOT WANT THIS TO AFFECT HIS SOLID BUSINESS REPUTATION. MR. [REDACTED] ASKED THAT INSPECTOR [REDACTED] CONTACT HIM BACK IN A FEW DAYS AND HE WOULD ENSURE THERE WAS PROPER CLEAN UP OF THE HYDRAULIC OIL FLUID FROM THE STREET AND DRIVEWAY OF PROPERTY OWNERS AT [REDACTED].

OCTOBER 9, 2018 by: ip [REDACTED]

## Note

AT 1200 HOURS INSPECTOR [REDACTED] SUBMITTED CONTACT FORM REQUEST ONLINE AT [REDACTED] SERVICES WEBSITE. NO RESPONSE.

OCTOBER 8, 2018 by: ip [REDACTED]

## Note

AT 1339 HRS INSPECTOR [REDACTED] LEFT A DETAILED MESSAGE WITH [REDACTED] ANSWERING SERVICE TO RETURN CALL REGARDING ILLICIT DISCHARGE OF HYDROLIC OIL FLUID IN A CRITICAL AREA.

OCTOBER 8, 2018 by: ip [REDACTED]

 Note

AT 0936 HRS INSPECTOR [REDACTED] LEFT A DETAILED MESSAGE WITH [REDACTED] ANSWERING SERVICE TO RETURN CALL REGARDING ILLICIT DISCHARGE OF HYDROLIC OIL FLUID IN A CRITICAL AREA.

OCTOBER 8, 2018 by: ip [REDACTED]

 Note

OCTOBER 5, 2018 by: ip [REDACTED]

*Created on Oct 05, 2018 by [REDACTED]*





### Complainant Information

Source

### Case Information

Complaint

Summary

Address

Subdivision

Location Details

Received Date  System ID

Tickler Date  Case ID

Completed Date

Receiver

### Owner Information

Owner, Second Name

Company Name  Email

Address

### Violator Information

Set Violator Same as Owner

Violator Second Name

Company Name

Address

### Assignment Information

Date Assigned

Inspector  Supervisor

Warning  Please, select row

Permit Number  Waterfront

Original Case ID  Critical Area

ADC Map

Cty. Council

Case Organization

### Case Details

PVC PIPE DISCHARGING WATER UNDER PRESSURE WITH ODOR IN FRONT YARD THAT DRAINS DOWN GRADE CAUSING PONDING AND SPONGY CONDITIONS IN ADJOINING PROPERTY.

Date

Fine

Due Date

Amount Paid

Req Trial Date

Fine Due Date

Fine Paid Date

Details

PHASE II ENFORCEMENT CANNOT BE IMPOSED AS THERE IS NO EVIDENCE OF GREY WATER DISCHARGE FROM PIPE. COMPLAINANT DID NOT CONFIRM IF WATER HAS SOAP BUBBLES PRESENT OR DISCOLORATION ONLY INDICATED THAT THERE WAS AN ODOR. PICTURES SENT ON 11/17/2018, BY COMPLAINANT SHOW CLEAR WATER DISCHARGE. SUMP PUMP PIPE DISCHARGE OR WATER CONDITIONING SYSTEM IS POSSIBLE SOURCE. WPRP SWM INSPECTORS HAVE A TEMPORARY MORATORIUM ON PERFORMING FIELD TESTS FOR SUSPECTED ILLICIT DISCHARGE AGENTS - DETERGENTS, AMMONIA, COPPER, PHOSPHATES, ETC. DUE TO NEED FOR PROPER STORAGE AND DISPOSAL OF TEST REAGENTS. INSPECTOR [REDACTED] CONTACTED COMPLAINANT VIA TELEPHONE AT 0900 HOURS ON 11/26/2018, AND EXPLAINED THAT PHASE II ENFORCEMENT (CERTIFIED LETTER) CANNOT BE ISSUED SINCE THE DISCHARGE CANNOT BE SUBSTANTIATED AS ILLICIT DISCHARGE AT THIS TIME. INSPECTOR [REDACTED] OFFERED TO TEST DISCHARGE WATER ONCE MORATORIUM IS LIFTED. IN THE INTERIM, COMPLAINANT WAS PROVIDED WITH DPW AND ROW CONTACT NUMBERS AND 311 SECLICKFIX SITE INFORMATION ON 11/26/2018, VIA EMAIL TO REPORT TO OTHER COUNTY DEPARTMENTS FOR POSSIBLE ENFORCEMENT ACTIONS. VOLUNTARY COMPLIANCE WAS REQUESTED.

Citation #

Resolved



## Active Permit Application Information

Type	Permit #	Status

## Other Cases On This Property

Case #	Received Date	Status	Summary

## Related Cases

type a case number or click to see related cases

Closed

## Case Timeline

First Closed on Nov 28, 2018 by [REDACTED]

Last updated on Nov 28, 2018 by [REDACTED]



### CLOSE COMPLAINT

PHASE II ENFORCEMENT CANNOT BE IMPOSED AS THERE IS NO EVIDENCE OF GREY WATER DISCHARGE FROM PIPE. COMPLAINANT DID NOT CONFIRM IF WATER HAS SOAP BUBBLES PRESENT OR DISCOLORATION ONLY INDICATED THAT THERE WAS AN ODOR. PICTURES SENT ON 11/17/2018, BY COMPLAINANT SHOW CLEAR WATER DISCHARGE. SUMP PUMP PIPE DISCHARGE OR WATER CONDITIONING SYSTEM IS POSSIBLE SOURCE. WPRP SWM INSPECTORS HAVE A TEMPORARY MORATORIUM ON PERFORMING FIELD TESTS FOR SUSPECTED ILLICIT DISCHARGE AGENTS - DETERGENTS, AMMONIA, COPPER, PHOSPHATES, ETC. DUE TO NEED FOR PROPER STORAGE AND DISPOSAL OF TEST REAGENTS. INSPECTOR FORD CONTACTED COMPLAINANT VIA TELEPHONE AT 0900 HOURS ON 11/26/2018, AND EXPLAINED THAT PHASE II ENFORCEMENT (CERTIFIED LETTER) CANNOT BE ISSUED SINCE THE DISCHARGE CANNOT BE SUBSTANTIATED AS ILLICIT DISCHARGE AT THIS TIME. INSPECTOR [REDACTED] OFFERED TO TEST DISCHARGE WATER ONCE MORATORIUM IS LIFTED. IN THE INTERIM, COMPLAINANT WAS PROVIDED WITH DPW AND ROW CONTACT NUMBERS AND 311 SECLICKFIX SITE INFORMATION ON 11/26/2018, VIA EMAIL TO REPORT TO OTHER COUNTY DEPARTMENTS FOR POSSIBLE ENFORCEMENT ACTIONS. VOLUNTARY COMPLIANCE WAS REQUESTED AND NOT ADHERED TO BY PROPERTY OWNER [REDACTED]. INSPECTOR [REDACTED] LEFT MATERIALS REGARDING SWM AND SUMP PUMP DISCHARGE ON 10/12/2018, AND SPOKE WITH MR. [REDACTED] GIRLFRIEND ON 10/12/2018, WHILE CONDUCTING THE INSPECTION IN WHICH ACCESS WAS GRANTED TO THE PROPERTY TO CONDUCT INSPECTION, AND SENT A CORRECTION NOTICE ON 10/26/2018, REQUESTING RESPONSE FROM HOME OWNER TO IDENTIFY THE SOURCE OF DISCHARGE AND RECEIVED NO RESPONSE. COMPLAINANT CONTACTED WPRP ENVIRONMENTAL CONTROLS SUPERVISOR, [REDACTED] ON 11/26/2018, AND EXPRESSED HER DISAPPOINTMENT THAT FURTHER ACTION(S) UNDER PHASE II AND PHASE III CANNOT BE TAKEN.

NOVEMBER 26, 2018 by: ip [REDACTED]



### Note

INSPECTOR [REDACTED] RECEIVED A CALL FROM COMPLAINANT INDICATING THAT THE PIPE IS STILL ACTIVELY DISCHARGING GREY WATER INTO HER PROPERTY OBSERVED AND DOCUMENTED DISCHARGE FLOWING ON 11/17/2018 BY COMPLAINANT AND HER SPOUSE. NO

INTO HER PROPERTY. OBSERVED AND DOCUMENTED DISCHARGE FLOWING ON 11/11/2018 BY COMPLAINANT AND HER SPOUSE. NO CORRECTIVE ACTIONS HAVE BEEN TAKEN BY HOMEOWNER [REDACTED] SINCE CORRECTION REPORT WAS ISSUED AND SENT 10/12/2018. INSPECTOR [REDACTED] HAS NOT RECEIVED ANY OUTREACH BY PHONE OR BY EMAIL FROM [REDACTED] TO ACKNOWLEDGE CORRECTION REPORT AND INTENT TO COMPLY. DEADLINE FOR COMPLIANCE WAS 11/12/2018, AND HAS PASSED WITHOUT CORRECTIVE ACTIONS BEING PERFORMED AS STATED. INSPECTOR [REDACTED] ADVISED COMPLAINANT THAT COMPLAINT HAS BEEN ELEVATED TO A PHASE II STATUS AND A CERTIFIED, REGISTERED LETTER WILL BE ISSUED AND SENT ON 11/21/2018. TIME FRAME FOR CORRECTIVE ACTIONS WILL BE SIGNIFICANTLY SHORTENED AND IF NO ACTIONS BY 12/7/2018, COMPLAINT WILL BE ELEVATED TO PHASE III, REFERRAL TO COUNTY OFFICE OF LAW FOR LEGAL ACTIONS AND POSSIBLE FINES.

NOVEMBER 19, 2018 by: ip [REDACTED]

## Note

AT 1500 HRS INSPECTOR [REDACTED] CONDUCTED INSPECTION AND LOCATED 2 IN PVC PIPE LEADING FROM REAR OF HOME TO FRONT OF PROPERTY. PIPE IS LEADING INTO LANDSCAPE AREA THAT DRAINS INTO ADJOINING LOT FRONT YARD. COMPLAINANT APPROACHED INSPECTOR [REDACTED] AND SHOWED LOCATION OF DRAINAGE. EVIDENCE OF PRIOR PONDING AND WET, SPONGY CONDITIONS WERE PRESENT IN COMPLAINANT FRONT YARD. ADDITIONALLY, MOSS AND WATER STAINING WAS OBSERVED BY INSPECTOR FORD ON THE SPLIT RAIL FENCE INDICATING WATER LINE FROM DISCHARGE. INSPECTOR [REDACTED] SPOKE WITH HOMEOWNER'S , [REDACTED], GIRLFRIEND WHO EXPLAINED THE HOME WAS RECENTLY PURCHASED WITH THE PIPE ALREADY PREVIOUSLY CONNECTED BY PRIOR OWNER. [REDACTED] WAS CONTACTED BY GIRLFRIEND AND WAS ADVISED OF THE NATURE OF INSPECTION. INSPECTOR [REDACTED] PROVIDED COUNTY MATERIALS PERTAINING TO ARTICLE 16-5-101, SUMP PUMP AND ROOF LEADER DISCHARGE, AND ILLICIT DISCHARGE MATERIALS AND ASKED THAT [REDACTED] CONTACT THE COUNTY TO DETERMINE TYPE OF DISCHARGE AND CORRECTIVE ACTIONS. PIPE DID NOT ACTIVELY DISCHARGE WHILE INSPECTOR [REDACTED] WAS PRESENT.

OCTOBER 11, 2018 by: ip [REDACTED]

Created on Oct 11, 2018 by [REDACTED]





### Complainant Information

Source

### Case Information

Complaint

Summary

Address

Subdivision

Location Details

Received Date  System ID

Tickler Date  Case ID

Completed Date

Receiver

### Owner Information

Company Name  Email

Address

### Violator Information

Set Violator Same as Owner

Company Name

Address

### Assignment Information

Date Assigned

Inspector  Supervisor

Permit Number  Waterfront

Original Case ID  Critical Area

ADC Map  Cty. Council

Case Organization

Warning  Please, select row

## Case Details

BLACK 1 IN CORRUGATED PIPE DISCHARGING POSSIBLE GREY WATER WITH ODOR INTO SIDE OF YARD AGAINST ADJOINING LOT FENCE LINE. PIPE DAYLIGHTS FROM A 4 IN BLACK CORRUGATED PIPE THAT IS DISCONNECTED FROM THE THE ROOF LEADER. PROPERTY OWNER MOVES PIPE PERIODICALLY.

## Active Permit Application Information

Type	Permit #	Status

## Other Cases On This Property


Case #	Received Date	Status	Summary

## Related Cases

type a case number or click to see related cases

Closed ▼

## Case Timeline

First Closed on Nov 08, 2018 by 

Last updated on Nov 08, 2018 by [REDACTED]

## CLOSE COMPLAINT

INSPECTOR [REDACTED] WAS CONTACTED BY [REDACTED] ON 11/1/2018, WHO ADVISED THAT THE PIPE WAS DISCHARGING SUMP WATER NOT GREY WATER. INSPECTOR [REDACTED] RE-INSPECTED THE PROPERTY ON 11/2/2018, AND PIPE HAS BEEN PROPERLY MOVED TO MEET COUNTY CODE SUMP PUMP PIPE DISCHARGE SET-BACK REQUIREMENTS. COMPLAINT CLOSED.

NOVEMBER 8, 2018 by: ip [REDACTED]

## Note

AT 1530 HRS INSPECTOR [REDACTED] CONDUCTED INSPECTION AND LOCATED A 1 IN BLACK CORRUGATED PVC PIPE FROM SIDE OF THE HOME TO FENCE LINE OF PROPERTY. PIPE DAYLIGHTS MID-WAY IN YARD FROM A 4 IN BLACK CORRUGATED PIPE THAT HAS BEEN DISCONNECTED FROM ROOF LEADER. PIPE DRAINS INTO VIOLATORS YARD ALONG FENCE LINE OF THE ADJOINING LOT OF THE COMPLAINANT. THE COMPLAINANT WAS PRESENT AND ALLOWED ACCESS TO THEIR PROPERTY TO OBSERVE CONDITIONS WHERE PIPE DRAINS. COMPLAINANT ADVISED THAT THE PIPE DISCHARGES AN ODOROUS FLUID THAT PONDS CAUSING VEGETATION DIE BACK. COMPLAINANT SAID SHE HAS OBSERVED THE PROPERTY OWNER MOVING THE LOCATION OF THE PIPE TO ROTATE THE AREA WHERE DISCHARGE COLLECTS. INSPECTOR [REDACTED] OBSERVED THE SPONGY SOIL CONDITIONS, WATER STAINING, AND VEGETATION DIE BACK. VIOLATOR WAS NOT HOME AND NO ONE ANSWERED THE DOOR WHEN INSPECTOR [REDACTED] KNOCKED. INSPECTOR [REDACTED] LEFT A BUSINESS CARD AND PROVIDED COUNTY MATERIALS PERTAINING TO ARTICLE 16-5-101, SUMP PUMP AND ROOF LEADER DISCHARGE, AND ILLICIT DISCHARGE MATERIALS AT THE FRONT DOOR. PIPE DID NOT ACTIVELY DISCHARGE WHILE INSPECTOR FORD WAS PRESENT.

OCTOBER 11, 2018 by: [REDACTED]

Created on Oct 11, 2018 by [REDACTED]





### Complainant Information

Source Person

### Case Information

Complaint Environment STORMWATER MANAGEMENT ISSUES

Summary

Address

Subdivision Subdivision

Location Details Location Details

Received Date 12/27/2018 09:14 AM System ID 82352

Tickler Date 12/27/2018 09:18 AM Case ID E-2018-872

Completed Date

Receiver

### Owner Information

Company Name  Email

Address

### Violator Information

Set Violator Same as Owner

First Name  Last Name

Violator Second Name

Company Name

Address

### Assignment Information

Date Assigned 12/27/2018 09:14 AM

Inspector (current caseload: 1) Supervisor

Permit Number  Waterfront

Original Case ID  Critical Area

ADC Map  Cty. Council

Case Organization

### Case Details



Compliant about possible diesel fuel in stream.

### Active Permit Application Information

Type	Permit #	Status
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### Other Cases On This Property


Case #	Received Date	Status	Summary
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### Related Cases

type a case number or click to see related cases

Closed ▼

### Case Timeline

First Closed on Jan 02, 2019 by 

Last updated on Jan 02, 2019 by 



## Note

Inspector [REDACTED] Spoke with Homeowner on 12/26/2018. Homeowner state that MDE had been out to the site with trucks to remove substance from stream.

DECEMBER 27, 2018 by: ip [REDACTED]

*Created on Dec 27, 2018 by [REDACTED]*





### Complainant Information

Source

### Case Information

Complaint

Summary

Address

Subdivision

Location Details

Received Date  System ID

Tickler Date  Case ID

Completed Date

Receiver

### Owner Information

Company Name  Email

Address

### Violator Information

Set Violator Same as Owner

Company Name

Address

### Assignment Information

Date Assigned

Inspector  Supervisor

Permit Number  Waterfront

Original Case ID  Critical Area

ADC Map  Cty. Council

Case Organization

Warning  Please, select row

## Case Details

COUNTY SWM INLET HAS BURNT POT WITH GREASE DRIPPINGS AND CHARCOAL ON TOP OF GRATE AND INSIDE INLET BOX. PROPERTY OWNERS ARE IN CATERING BUSINESS AND LIKELY HAVE PLACED ON INLET.

## Active Permit Application Information

Type	Permit #	Status

## Other Cases On This Property

Case #	Received Date	Status	Summary

## Related Cases

type a case number or click to see related cases

Open ▼

## Case Timeline

Last updated on Apr 17, 2019 b [REDACTED]

 Note

CORRECTION NOTICE ISSUED ON 02/20/2019, TO THE PROPERTY OWNERS AT [REDACTED] CORRECTION NOTICE REQUESTS THE REMEDIATION CLEAN UP OF THE EXISTING LARGE POT, GREASE DRIPPINGS IN AND ON THE INLET GRATE, BURNT CHARCOAL AND ALL OTHER RELATED DUMPED MATERIALS IN THE STORMWATER INLET BOX. FOLLOW-UP ON 03/01/2019.

FEBRUARY 19, 2019 by: ip [REDACTED]

 ILLEGAL DISCHARGES VIOLATION

ON 2/15/2019, AT 1230 HOURS SUPERVISOR [REDACTED] RECEIVED A CALL FROM COMMUNITY RESIDENT INDICATING THAT THE COUNTY STORMWATER INLET GRATE LOCATED AT [REDACTED] HAS A LARGE SIZE COOKING/STEAMER POT WITH GREASE DRIPPINGS AND CHARCOAL ON AND INSIDE OF INLET. SUPERVISOR [REDACTED] DISPATCHED COMPLAINT TO TERRITORY INSPECTOR. INSPECTOR [REDACTED] CONDUCTED ON-SITE INSPECTION ON 2/15/2019, AT 1510 HOURS AND DETERMINED THERE WAS EVIDENCE AS REPORTED BY COMPLAINANT (SEE ATTACHED PHOTOS) . INSPECTOR [REDACTED] KNOCKED AT THE RESIDENCE OF 1205 AMHERST COURT AS THERE WERE ITEMS RELATED TO COOKING AND CATERING LOCATED IN FRONT DRIVEWAY AND YARD. AN INDUSTRIAL SINK AND BUCKET OF BURNT CHARCOAL WERE PRESENT ON THE PROPERTY (SEE ATTACHED PHOTOS) AND VISIBLE FROM THE ROAD. NO ONE ANSWERED THE DOOR AT [REDACTED] AND INSPECTOR [REDACTED] LEFT HER CARD AND A COPY OF ANNE ARUNDEL COUNTY CODE 2005, ARTICLE 16-5-101 HIGHLIGHTING VIOLATION (6) IT IS A VIOLATION TO SPILL, DUMP, OR DISPOSE OF ANY MATERIALS OR SUBSTANCE OTHER THAN NATURAL STORMWATER RUNOFF TO A STORMDRAIN OR WATERCOURSE UNLESS AUTHORIZED BY A VALID NPDES PERMIT ISSUED BY THE STATE OF MARYLAND. INSPECTOR [REDACTED] SPOKE WITH ADJOINING NEIGHBOR AND INQUIRED HOW LONG THE POT AND GREASE DRIPPINGS HAD BEEN ON THE INLET AND IF HE HAD SEEN THE RESPONSIBLE PERSON FOR DUMPING. THE NEIGHBOR DID NOT KNOW AND DID CONFIRM THAT THE OWNERS OF THE PROPERTY AT [REDACTED] DID OPERATE A CATERING PROFESSIONAL SERVICE. INSPECTOR [REDACTED] DID EXPLAIN THAT ONLY RAIN IN THE STORMDRAIN AND ADVISED THAT IT WAS AN ILLICIT DISCHARGE TO DUMPING COOKING GREASE AND CHARCOAL INTO THE COUNTY STORMWATER SYSTEM. A CORRECTION NOTICE WILL BE ISSUED AND MAILED TO PROPERTY OWNERS AT [REDACTED]

FEBRUARY 19, 2019 by: ip [REDACTED]

Created on Feb 19, 2019 by [REDACTED]





### Complainant Information

Source Anonymous

### Case Information

Complaint Environment ILLEGAL DISCHARGES COMPLAINT

Summary

Address

█ █ Street Type

█ █ █

Subdivision Subdivision

Location Details Location Details

Received Date 03/05/2019 08:55 AM System ID 83120

Tickler Date 03/15/2019 08:55 AM Case ID E-2019-123

Completed Date

Receiver █

### Owner Information

█ █ (XXX)-XXX-XXXX

█

Company Name Email

Address █ █ Street Type

█ █ █

### Violator Information

Set Violator Same as Owner

First Name Last Name (XXX)-XXX-XXXX

Violator Second Name

Company Name

Address House Number Street Name Street Type

City State Zip

### Assignment Information

Date Assigned 03/05/2019 08:55 AM

Inspector █ Supervisor █

Warning ✖  
Please, select row

Permit Number Waterfront

Original Case ID Critical Area



ADC Map

Cty. Council

Case Organization

### Case Details

Date

Fine

Due Date

Amount Paid

Req Trial Date

Fine Due Date

Fine Paid Date

Details

Close complaint. No discharge was visible during any field inspections. DGills

Citation #

Resolved

## Active Permit Application Information

Type	Permit #	Status
B	2322564	Completed
E	2237461	Completed
E	2300055	Completed
M	2075251	Completed
P	2093113	Completed

## Other Cases On This Property

Case #	Received Date	Status	Summary
There are no other cases on this property			

## Related Cases


type a case number or click to see related cases

Closed ▾


## Case Timeline +

First Closed on Apr 11, 2019 by [REDACTED]


Last updated on Apr 11, 2019 by [REDACTED]

 **CLOSE COMPLAINT**  
Close complaint. No discharge was visible during any field inspections. [REDACTED]

APRIL 11, 2019 by: [REDACTED]

 **Note**  
Today a field inspection revealed no discharge or liquid coming directly out of the pipe. Inspector [REDACTED] will monitor this site.

MARCH 15, 2019 by: [REDACTED]

 **Note**  
Inspector [REDACTED] observed no discharge on 3/4/2019. We did have a large amount of rain 3/2/2019 which may have washed away the suds that were visual last week. I will monitor this situation. [REDACTED]

MARCH 5, 2019 by: [REDACTED]

Created on Mar 05, 2019 by [REDACTED]





### Complainant Information

Source

### Case Information

Complaint

Summary

Address

Subdivision

Location Details

Received Date  System ID

Tickler Date  Case ID

Completed Date

Receiver

### Owner Information

Company Name  Email

Address   Street Type

### Violator Information

Set Violator Same as Owner

Company Name

Address   DR

### Assignment Information

Date Assigned

Inspector  Supervisor

Permit Number  Waterfront

Original Case ID  Critical Area

ADC Map  Cty. Council

Case Organization

Warning  Please, select row

## Case Details

PROPERTY OWNER IS DUMPING CHICKEN MANURE OVER FENCE ON COUNTY PARK PROPERTY IN A CRITICAL AREA. CASE ORIGINATED WITH A FORMAL COMPLAINT FILED WITH MDE. SINCE THE PROPERTY WAS COUNTY OWNED AND NOT AGRICULTURAL, MDE REFERRED THE CASE TO COUNTY INSPECTION AND PERMITS DEPARTMENT.

## Active Permit Application Information

Type	Permit #	Status

## Other Cases On This Property

Case #	Received Date	Status	Summary

## Related Cases

type a case number or click to see related cases

Open ▾

## Case Timeline

Last updated on Apr 17, 2019 by ██████████

 Note

INSPECTOR [REDACTED] UPON RETURNING TO THE COUNTY OFFICES ON 04/11/2019, NOTIFIED SEVERAL OTHER COUNTY DEPARTMENTS FOR ENFORCEMENT REGARDING THE VIOLATION INCLUDING, [REDACTED] OF PLANNING AND ZONING, [REDACTED] OF CODE COMPLIANCE, AND [REDACTED] OF RECREATION AND PARKS. [REDACTED] DISPATCHED REC AND PARK WORKERS TO CLEAN UP THE MANURE PILE PRIOR TO THE NEXT RAIN EVENT WHICH WAS COMPLETED BY 4/12/2019. MDE CONTACT [REDACTED] WAS NOTIFIED IN FOLLOW UP AND MS. [REDACTED] INDICATED SHE WOULD SEND MDE GUIDANCE TO VIOLATORS REGARDING ILLICIT DISCHARGE AND DUMPING. COUNTY INSPECTOR [REDACTED] WILL ALSO SEND ILLICIT DISCHARGE AND DUMPING NOTICE OF NON-COMPLIANCE TO VIOLATORS.

APRIL 17, 2019 by: ip [REDACTED]

 ILLEGAL DISCHARGES VIOLATION

AT 1500 HOURS INSPECTOR [REDACTED] CONDUCTED AN ON-SITE INVESTIGATION AND OBSERVED A 3 FT X 5 FT DUMPED PILE OF CHICKEN MANURE LOCATED APPROXIMATELY 2 FT FROM LOCUST CREEK HIGH WATER MARK . THE MANURE PILE WAS MIXED WITH STRAW AND EVIDENCE OF CHICKEN FEATHERS WERE PRESENT AND DOCUMENTED. INSPECTOR [REDACTED] TOOK SEVERAL PHOTOS AND VIDEO OF THE ILLICIT DUMPING AND ATTEMPTED TO GAIN ACCESS TO THE ALLEGED VIOLATORS PROPERTY TO SPEAK WITH THE OWNERS BUT WAS PREVENTED BY THE PROPERTY CHAIN LINK FENCE.

APRIL 17, 2019 by: ip [REDACTED]

Created on Apr 10, 2019 by [REDACTED]







### Complainant Information

Source

### Case Information

Complaint

Summary

Address

Subdivision

Location Details

Received Date  System ID

Tickler Date  Case ID

Completed Date

Receiver

### Owner Information

Company Name  Email

Address

### Violator Information

Set Violator Same as Owner

Company Name

Address

### Assignment Information

Date Assigned

Inspector  Supervisor

Warning  Please, select row

Permit Number  Waterfront

Original Case ID  Critical Area

ADC Map

Cty. Council

Case Organization

## Case Details

## Active Permit Application Information

Type	Permit #	Status

## Other Cases On This Property

Case #	Received Date	Status	Summary

## Related Cases

## Related Cases

type a case number or click to see related cases

Open

## Case Timeline

Last updated on Apr 17, 2019 by [REDACTED]



### CLOSE COMPLAINT

COMPLAINT CLOSED AS NO EVIDENCE OF ILLICIT DISCHARGE AND REFERRED TO COUNTY ROADS AND RIGHT OF WAY (ROW) HOSE REMOVAL.

APRIL 25, 2019 by: ip [REDACTED]



### Note

INSPECTOR [REDACTED] CONDUCTED AN ON-SITE INSPECTION ON 4/24/2019, AT 1330 HOURS AND OBSERVED 2 GARDEN HOSES RUNNING FROM THE PROPERTY OF [REDACTED] INTO THE COUNTY ROW CONCRETE SWALE THAT DRAINS INTO A COUNTY STORMWATER CONCRETE INLET. INSPECTOR [REDACTED] OBSERVED ACTIVE FLOW FROM THE LARGER BLACK GARDEN HOSE WHILE THE SMALL DIAMETER RED HOSE WAS NOT ACTIVELY DISCHARGING. FLOW FROM THE BLACK HOSE WAS CLEAR WATER THAT WAS ODORLESS AND WITHOUT FOAM, SUDS, OR SLIME. INSPECTOR [REDACTED] CONDUCTED BOTH A CHLORINE AND DETERGENTS TEST ON THE WATER DISCHARGING FROM THE HOSE AND NEITHER TEST RESULTED IN POSITIVE READINGS. COMPLAINT CLOSED AS NO EVIDENCE OF ILLICIT DISCHARGE AND REFERRED TO COUNTY ROADS AND RIGHT OF WAY (ROW).

APRIL 25, 2019 by: ip [REDACTED]



### ILLEGAL DISCHARGES VIOLATION

AT 1430 HOURS, INSPECTOR [REDACTED] CONDUCTED ON-SITE INVESTIGATION OF PROPERTY.

APRIL 17, 2019 by: ip [REDACTED]

Created on Apr 15, 2019 by [REDACTED]





### Complainant Information

Source

### Case Information

Complaint

Summary

Address

Subdivision

Location Details

Received Date  System ID

Tickler Date  Case ID

Completed Date

Receiver

### Owner Information

Last Name

Owner, Second Name

Email

Address

### Violator Information

Set Violator Same as Owner

Last Name

Violator Second Name

Address

### Assignment Information

Date Assigned

Inspector  Supervisor

Permit Number  Waterfront

Original Case ID  Critical Area

ADC Map  Cty. Council

Case Organization

Warning

## Case Details

Received a complaint of wood chips being put directly into Stoney Creek.

## Active Permit Application Information

Type	Permit #	Status

## Other Cases On This Property

Case #	Received Date	Status	Summary

## Related Cases

type a case number or click to see related cases

Closed ▼

## Case Timeline

First Closed on May 13, 2019 by [REDACTED]

Last updated on May 13, 2019 by [REDACTED]

## CLOSE COMPLAINT

Inspector [REDACTED] referred complaint to [REDACTED] with Code and Compliance.

MAY 8, 2019 by: ip [REDACTED]

## Site Inspection Report

Inspector [REDACTED] arrived on site at 3:00 PM in response to a complaint of wood chips being discharged directly into Stony Creek. Upon arrival, inspector [REDACTED] observed clearing of trees, earth disturbance, and filling of a wetland area with wood chips near [REDACTED]. No wood chips were observed being discharged directly into Stony Creek. Wood chips were observed in the wetland area. No workers were on site at the time of the inspection.

MAY 8, 2019 by: ip [REDACTED]

Created on May 08, 2019 by [REDACTED]







### Complainant Information

Source

### Case Information

Complaint

Summary

Address

Subdivision

Location Details

Received Date  System ID

Tickler Date  Case ID

Completed Date

Receiver

### Owner Information

Last Name

Owner, Second Name

Email

Address

### Violator Information

Set Violator Same as Owner

Last Name

Violator Second Name

Address

### Assignment Information

Date Assigned

Inspector  Supervisor

Permit Number  Waterfront

Original Case ID  Critical Area

ADC Map  Cty. Council

Case Organization

Warning  Please, select row

## Case Details

Clearing/Grading/Cutting/Spreading mulch down to waterfront and wetlands.

## Active Permit Application Information

Type	Permit #	Status

## Other Cases On This Property

Case #	Received Date	Status	Summary

## Related Cases

type a case number or click to see related cases

Closed ▼

## Case Timeline

First Closed on May 13, 2019 by [redacted] (330)

Last updated on May 13, 2019 by [REDACTED] (330)

## Site Inspection Report

The property has an existing Approved VMP and Grant project. Close Case.

MAY 13, 2019 by: IP [REDACTED]

Created on May 08, 2019 by [REDACTED] (330)





### Complainant Information

Source Person

### Case Information

Complaint Environment ILLEGAL DISCHARGES COMPLAINT

Summary draining swimming pool into  property

Address

Subdivision

Location Details

Received Date 05/13/2019 10:09 AM System ID 93943

Tickler Date 05/23/2019 10:09 AM Case ID E-2019-365

Completed Date 05/30/2019 08:26 AM

Receiver Andrew Hein

### Owner Information

Owner, Second Name

Company Name  Email

Address

### Violator Information

Set Violator Same as Owner

Violator Second Name

Company Name

Address

### Assignment Information

Date Assigned 05/13/2019 10:09 AM

Inspector  (current caseload: 1) Supervisor

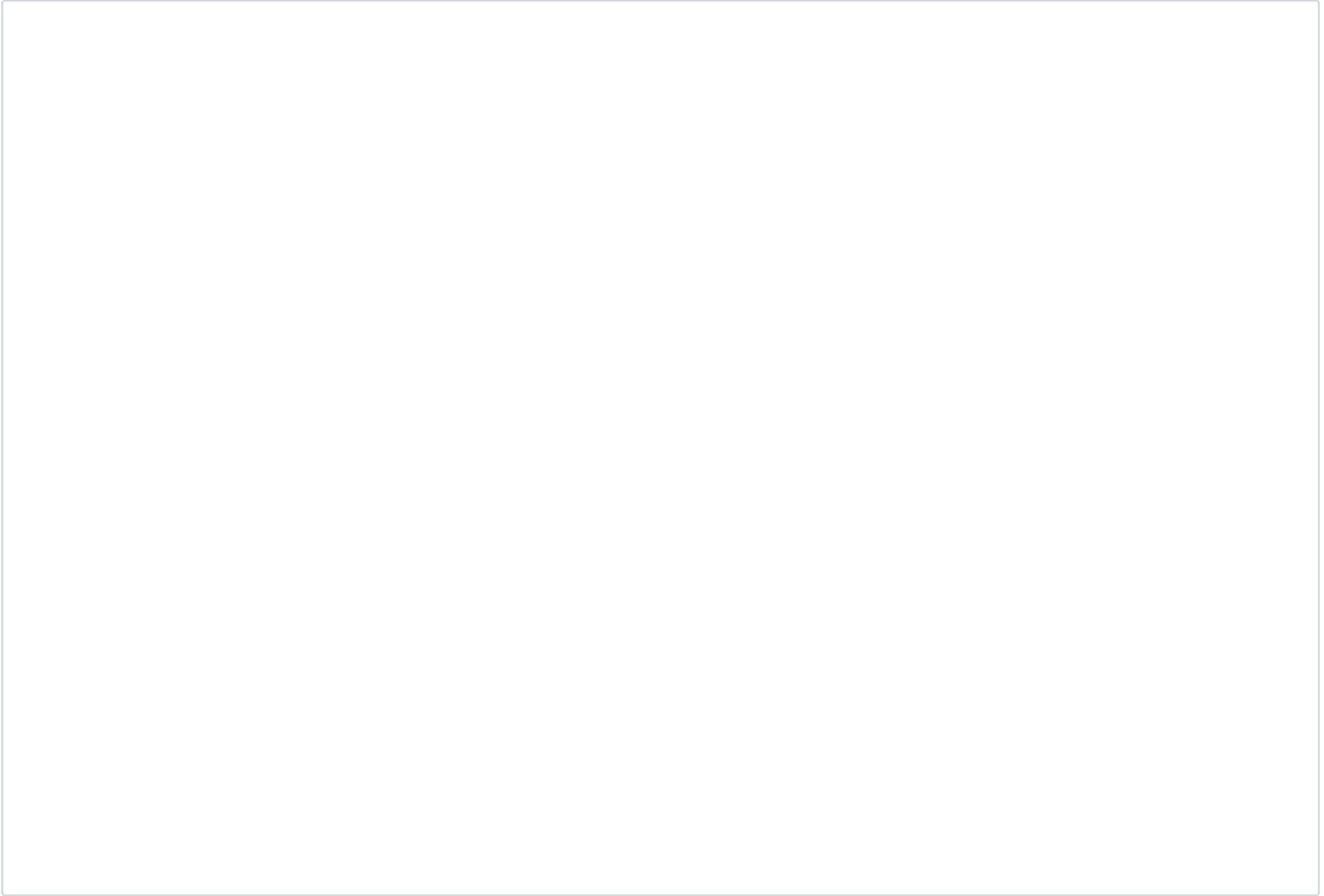
Permit Number G02004604 Waterfront N

Original Case ID  Critical Area N

ADC Map  Cty. Council

Case Organization

### Case Details



### Active Permit Application Information

Type	Permit #	Status

### Other Cases On This Property

Case #	Received Date	Status	Summary


### Related Cases

type a case number or click to see related cases

Closed ▾

### Case Timeline

First Closed on May 30, 2019 by 

Last updated on May 30, 2019 by 



## CLOSE COMPLAINT

visited area and spoke with cit and resident at [REDACTED] (pool owner) she has agreed no redirect pool back wash to sewer system and remove pipe that leads into storm water swale in back yard of [REDACTED]. The back yard of [REDACTED] has a storm drain the other properties storm water drain into this drain as graded that direction

MAY 30, 2019 by: ip [REDACTED]

*Created on May 13, 2019 by [REDACTED]*







### Complainant Information

Source

### Case Information

Complaint

Summary

Address

Subdivision

Location Details

Received Date  System ID

Tickler Date  Case ID

Completed Date

Receiver

### Owner Information

Company Name  Email

Address

### Violator Information

Set Violator Same as Owner

Company Name

Address

### Assignment Information

Date Assigned

Inspector  Supervisor

Permit Number  Waterfront

Original Case ID  Critical Area

ADC Map  Cty. Council

Case Organization

Warning  Please, select row

## Case Details

### Active Permit Application Information

Type	Permit #	Status

### Other Cases On This Property

Case #	Received Date	Status	Summary

### Related Cases

type a case number or click to see related cases

Closed ▼

## Case Timeline +

First Closed on Jun 05, 2019 by ██████████

Last updated on Jun 05, 2019 by [REDACTED]

## Close Case

Property owner attached a chlorine diffuser on his hose. He emailed inspector [REDACTED] and Photo of it. Close complaint. [REDACTED]

JUNE 5, 2019 by: IP [REDACTED]

## Note

Inspector [REDACTED] spoke to [REDACTED] @3:30 in regards to the pool discharge. Inspector [REDACTED] instructed [REDACTED] to attach a dechlorinator device to the hose if he discharges anymore pool water. [REDACTED] was told to take and send a picture and or a video via email when and or if he discharges more pool water. This site will be monitored. [REDACTED]

MAY 21, 2019 by: IP [REDACTED]

## Note

A field inspection conducted by inspector [REDACTED] on May 20th @ 1030 revealed a hose running from the pool to the back side of the yard. After knocking on the door Inspector [REDACTED] left his card after knocking on the door. inspector [REDACTED] wrote a note on the card for the Homeowner to contact him and to stop discharging their pool water. Inspector [REDACTED] took a few photos and a short video of this site. A correction notice will be going out to the property owner and Inspector [REDACTED] will monitor this site for 30 days. [REDACTED]

MAY 20, 2019 by: IP [REDACTED]

Created on May 20, 2019 by [REDACTED]





### Complainant Information

Source

### Case Information

Complaint

Summary

Address

Subdivision

Location Details

Received Date  System ID

Tickler Date  Case ID

Completed Date

Receiver

### Owner Information

Company Name  Email

Address

### Violator Information

Set Violator Same as Owner

Company Name

Address

### Assignment Information

Date Assigned

Inspector  Supervisor

Permit Number  Waterfront

Original Case ID  Critical Area

ADC Map  Cty. Council

Case Organization

Warning  Please, select row

## Case Details

Pool Drainage complaint

## Active Permit Application Information

Type	Permit #	Status

## Other Cases On This Property

Case #	Received Date	Status	Summary

## Related Cases

type a case number or click to see related cases

Closed ▼

## Case Timeline

First Closed on Jun 03, 2019 by [REDACTED]

Last updated on Jun 03, 2019 by [REDACTED]

 **CLOSE COMPLAINT**

Inspector [REDACTED] met with homeowner, who had already spoken with complainant. Homeowner had stopped draining pool before inspector [REDACTED] arrived.

JUNE 3, 2019 by: ip [REDACTED]

Created on Jun 03, 2019 by [REDACTED]

