**SUMMARY**

The 45 outfalls listed on the ORI report were investigated on 6/13/2024 and 6/20/2024. This list includes the additional outfalls included from acquisition of property to the University.

Of those new outfall locations acquired, many were determined to be simply gutter flow from the roofs to the street. Some of the new sites have inlets and pipe networks that carry the flow into the Radford City system, while others are a combination. There have been no overall changes to those systems this year.

Previous flow testing had revealed that the Fitness Center, Science and Humanities HVAC system discharges into the existing storm drainage system. This accounts for the various levels of ammonia detected at times from the units as the flow is monitored. Not every year the flow is detected but each time it is found, the flow is located in the same areas on campus. It was noted that this year flow has been detected from the New Artis Facility that is near completion and will be fully operational in early Autumn 2024. It was traced to the HVAC which has been operating for the last few months.

This year traces of ammonia detected from flows coming from the Fitness Center and a combination of the Artis and Science buildings. Flow was detected at the EM-2 with no traces of ammonia from both the Artis and the Science building. Flow was recorded at the Fitness Center and recorded in flow from JE-6 with traces of ammonia from the roof drains.

Significant rainfall events in previous years have caused the RU staff to focus on damage along the riverbanks instead of normal maintenance tasks. Locations around RU-NR-2 were significantly hit and damaged a few years ago. Many of the repairs have been completed to restore the outfall areas and banks of the river. These areas will be continuously monitored throughout the coming year. This year, no signs of additional damage were observed at the outfall locations.

**MAP CHANGES**

**None this year. The new ADS system for the CAIC facility is anticipated to be online late summer of 2024.**

**FLOW TESTS**

**RU-BU-2** stream flow tested with no indicators of illicit discharge.

**RU-NR-1** stream flow tested with no indicators of illicit discharge.

**RU-NR-5** stream flow tested with no indicators of illicit discharge.

**RU-NR-7** stream flow tested with no indicators of illicit discharge.

**RU-EM-2** Flow tests indicated no levels of ammonia. Flow traced through campus to roofdrains at the Science Building. Had ammonia in previous years.

**RU-JE-6** Flow tests indicated levels of ammonia. Flow traced through campus to roofdrains at the Fitness Building. Had ammonia in previous years.

**MAINTENANCE CONCERNS (On Radford University Property)**

**RU-AF-1, RU-NR-2, RU-CA-2, RU-NR-6, RU-NR- 4.5, RU-NS 5, RU- NR-5.5, RU-NR-4, RU-NS- 4, RU-DO-1, Cleanup/debris**

**MAINTENANCE CONCERNS (Outfall on City Property, Contact Radford City)**

**RU-NR-9, Maintenance/recommend Riprap**

**RU-NR-8, RU-NR-10, Cleanup/debris**

**INVESTIGATION NEEDED (More information needed on outfall and drainage basin)**

**RU-CA-2**

**Note all outfall flows will ultimately be conveyed to the New River.  Since 2010, DEQ has generated several ambient water column and sediment PCB data in support of total maximum daily loads (TMDLs) for PCB polychlorinated biphenyls (PCBs) in the New River.**

**Outfall watersheds should be monitored for sediment and chemical discharges that could increase the TMDL.  Any possible sources should be investigated prior to an illicit discharge event.**

**A DEQ Draft Report dated 2017 is available for details on specific sources of PCBs.**