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## From:

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## Date:

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## Arcadis Project No.:

30075935.01934

## Subject:

Outfall 003/004 Diversion and Treatment System Decommissioning Work  
Plan  
Buick City Site, Flint, MI

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This Outfall 003/004 Diversion and Treatment System Decommissioning Work Plan (Work Plan) was prepared on behalf of Revitalizing Auto Communities Environmental Response (RACER) by Arcadis. The purpose of this work plan is to provide a justification for taking the Outfall 003/004 Diversion and Treatment System (System) out of service and provide the approach to decommission the System located at the Buick City Site (The Site) located in Flint, Michigan (**Figure 1**).

**Background**

The System was installed in January 2011 to control the release of light non-aqueous phase liquid (LNAPL) from the Outfall 003 and 004 storm sewer discharges to the Flint River. The system consisted of installing an oil-water separator, BaySaver™ Separation System, conveyance piping to connect all major structures, and overflow weir installation in the existing storm sewer vaults (**Figure 2**). Following the installation of the System, additional measures were taken to eliminate LNAPL infiltration into the storm sewer system onsite. Measures have included bulkheading onsite lateral lines within the Outfall 003 drainage area, rerouting the Outfall 004 flow upgradient of the site into Outfall 013, eliminating the remaining portions of onsite storm drainage, and rerouting the Outfall 003 flow upgradient of the site to avoid LNAPL areas within the Site.

The rerouting of the Outfall 004 storm sewer into the Outfall 013 storm sewer prior to upgradient flow entering the site was completed in spring of 2015.

The Outfall 003 storm sewer reroute was completed in the Spring of 2021, which included the installation of new pipe to reroute portions of upgradient flow along the west edge of the site to avoid LNAPL and PFAS impacts within the Site.

A boom study was conducted on July 19<sup>th</sup>, 2021, with a total of four oil absorbent booms installed at 2 manholes where offsite flow enters the property, 3-52 and 3-52-4, and 2 manholes upgradient of the System, 3-6 and 3-11 (**Figure 3**). On July 22, 2021, the booms at manholes 3-6 and 3-11 were inspected and no LNAPL was observed.

Based on the various remediation measures completed at the Site and the subsequent booms studies, LNAPL release to the Outfall 003 and 004 storm sewer systems has been eliminated. As such the continued use of the System is no longer necessary and will be decommissioned.

### **Decommissioning**

Decommissioning of the System will include abandoning the System in place (**Figure 4**). HDPE pipes diverting flow from the manholes 3-6 and 4-6 vaults will be capped or plugged to stop flow from entering the system. The 16-inch HDPE discharge connection to the existing 66-inch sewer main at manhole 3-3 will be plugged. The diversion weirs in the manhole 3-6 vault will be removed and manhole 4-6 will be modified by filling or bulkheading to prevent further drainage from entering the System.

A final cleaning event would take place for the BaySaver™ Separation System and the oil water separator, including waste removal and disposal as well as removal of any unneeded internal parts. The system would be pressure washed to remove any residual material and then flowable concrete or a similar material will be installed to approximately 5 feet below grade. The remaining area will be filled with stockpiled soils from the site.







--- PROPERTY BOUNDARY

APPROXIMATE EXTENT OF UTILITY EASEMENT





