APPENDIX C
Compensatory Stormwater Mitigation Plan

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U.S. Department of Transportation
Federal Highway Administration

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

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ABBREVIATIONS AND ACRONYMS

COMAR	Code of Maryland Regulations
CR	Cultural Resources
CTB	Concrete Traffic Barrier
DOE	Determination of Eligibility
DSD	Dam Safety Division
EIS	Environmental Impact Statement
ESA	Endangered Species Act
ESC	Erosion and Sediment Control
ESD	Environmental Site Design
FHWA	Federal Highway Administration
GIS	Geographic Information System
HAZMAT	Hazardous Materials
HUC	Hydrologic Unit Code
IART	Impervious Area Requiring Treatment
IAT	Impervious Area Treated
JPA	Joint Permit Application
LWCF	Land and Water Conservation Fund Act
LOD	Limit of Disturbance
MDE	Maryland Department of the Environment
MDOT	Maryland Department of Transportation
MHT	Maryland Historic Trust
MLS	Managed Lane Study
MOS	Maintenance of Streamflow
MOU	Memorandum of Understanding
MOT	Maintenance of Traffic
NEPA	The National Environmental Policy Act
NR	Natural Resources
NTW/W	Nontidal Wetlands and Waterways
OH	Overhead
P3	Public Private Partnership
PA	Programmatic Agreement
PAX	Patuxent River Watershed
POS	Program Open Space
PRD	Plan Review Division
PSOC	Potential Sites of Concern
ROE	Right of Entry
ROW	Right-of-Way
RTE	Rare, Threatened, and Endangered
SHA	State Highway Administration
SWM	Stormwater Management

TR	Technical Requirement
UG	Underground
USACE	United States Army Corps of Engineers
WAS	Washington Metro Watershed
WR	Water Resources

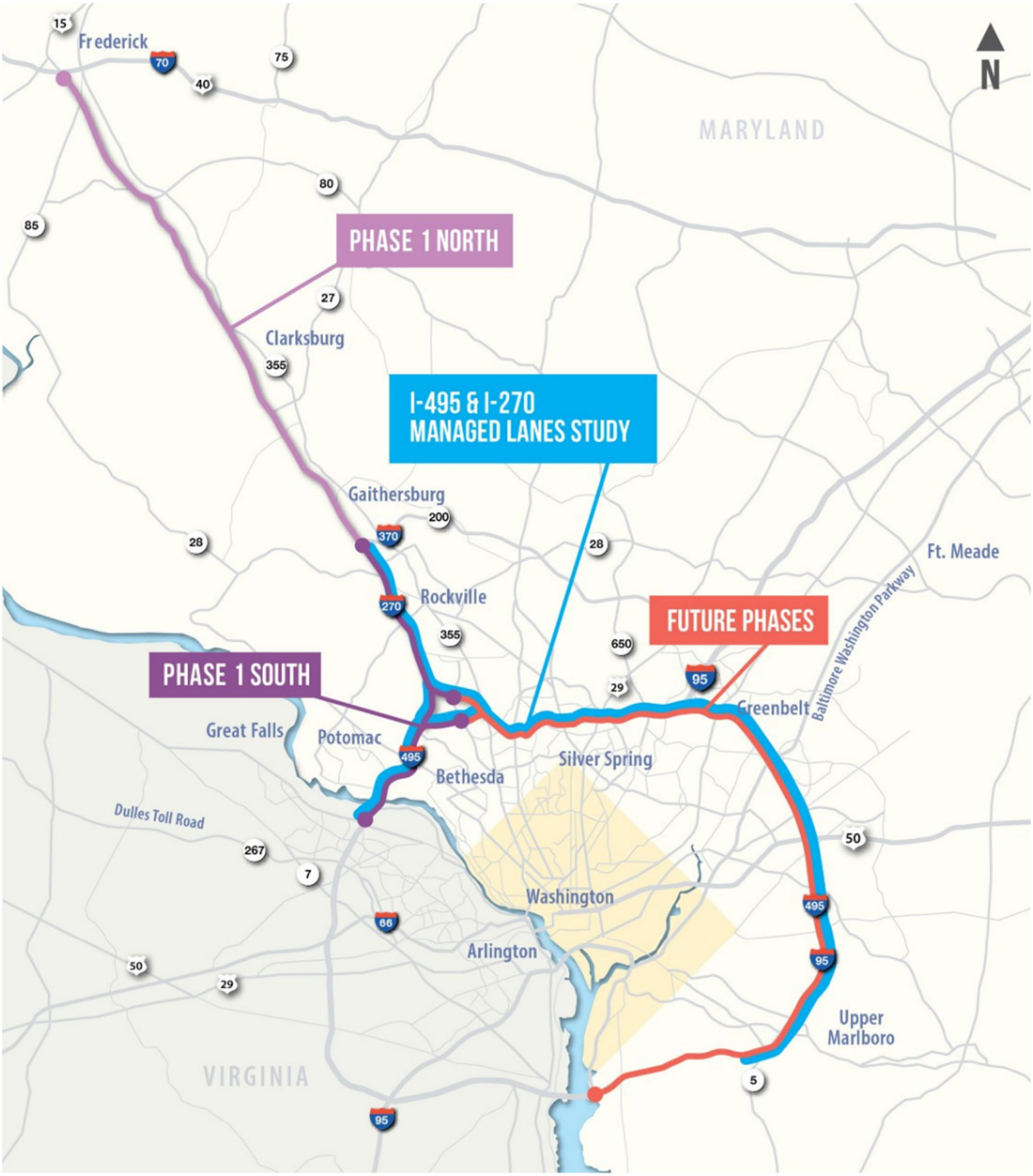
1 INTRODUCTION

The Federal Highway Administration (FWHA), as the Lead Federal Agency, and the Maryland Department of Transportation State Highway Administration (MDOT SHA), as the Local Project Sponsor, are preparing an Environmental Impact Statement (EIS) in accordance with the National Environmental Policy Act (NEPA) for the Private Public Partnership (P3) I-495 and I-270 Managed Lane Study (MLS). The study is evaluating potential transportation improvements to portions of the I-495 and I-270 corridors within Montgomery County and Prince George's County, Maryland and Fairfax County, Virginia. The MLS will be broken into different phases for design and construction with Phase 1 South being selected as the first phase to be constructed. Phase 1 South extends along I-495 from south of the George Washington Parkway in Virginia to its intersection with the I-270 East Spur, including the I-270 West Spur in its entirety, and along I-270 from its intersection with the I-270 East and West Spurs to its intersection with I-370.

The purpose of this document is to present (1) the compensatory stormwater management (SWM) mitigation approach since it is likely that the MLS SWM water quality requirements will not be able to be met on-site and (2) the P3 Developer's responsibilities in meeting the MLS SWM requirements. This document also details the methodologies, assumptions and evaluations used for this planning level study to support and inform the MLS Joint Permit Application (JPA) and various EIS for the compensatory SWM mitigation sites identified. The MLS Phase 1 South JPA is being submitted for approval first. The Draft EIS covers the entire MLS while the Supplemental DEIS covers Phase 1 South; therefore, this document will cover requirements for the entire MLS, with a breakdown of Phase 1 South requirements versus potential future phases. In this document, MLS Phases will refer to Phase 1 South and potential future phases along I-495 outside of Phase 1.

Efforts have been made throughout the planning process to avoid and minimize impacts to private property as well as historic and environmental resources, while still achieving compensatory SWM mitigation requirements. Despite these efforts, impacts to property and resources are unavoidable due to the extensive network of environmental resources located adjacent to and within existing MDOT SHA Right-of-Way (ROW).

Figure 1-1: MLS Corridor and Phases



2 MANAGED LANES STUDY STORMWATER MANAGEMENT REQUIREMENTS

According to the Code of Maryland Regulations (COMAR), "the management of stormwater runoff is necessary to reduce stream channel erosion, pollution, siltation and sedimentation, and local flooding". The quantification of the SWM required, water quality and water quantity, for a project is determined by the amount of existing impervious area and proposed impervious area located within the study area or NEPA Limit of Disturbance (LOD). While the Maryland Department of the Environment (MDE)and MDOT SHA *Water Quality Banking Agreement* indicates SWM quantity requirements must be met on-site for any given project, the SWM quality requirements, while desirable to be met on-site, can be met elsewhere within the same MDE 6-digit watershed. Additional SWM requirements are included in the *On-site Stormwater Management Analysis for the Managed Lane Study* and *On-Site Stormwater Management Analysis for the Managed Lanes Study, Phase 1 South* reports, dated June 2021 (SWM Studies).

There are two (2) MDE 6-digit watersheds impacted by the MLS: Washington Metropolitan Watershed (WAS – No. 021402), and Patuxent River Watershed (PAX – No. 021311). The MLS Phase 1 South corridor is located entirely within MDE WAS 6-Digit Watershed, while the rest of the MLS is in MDE WAS and PAX 6-Digit Watersheds.

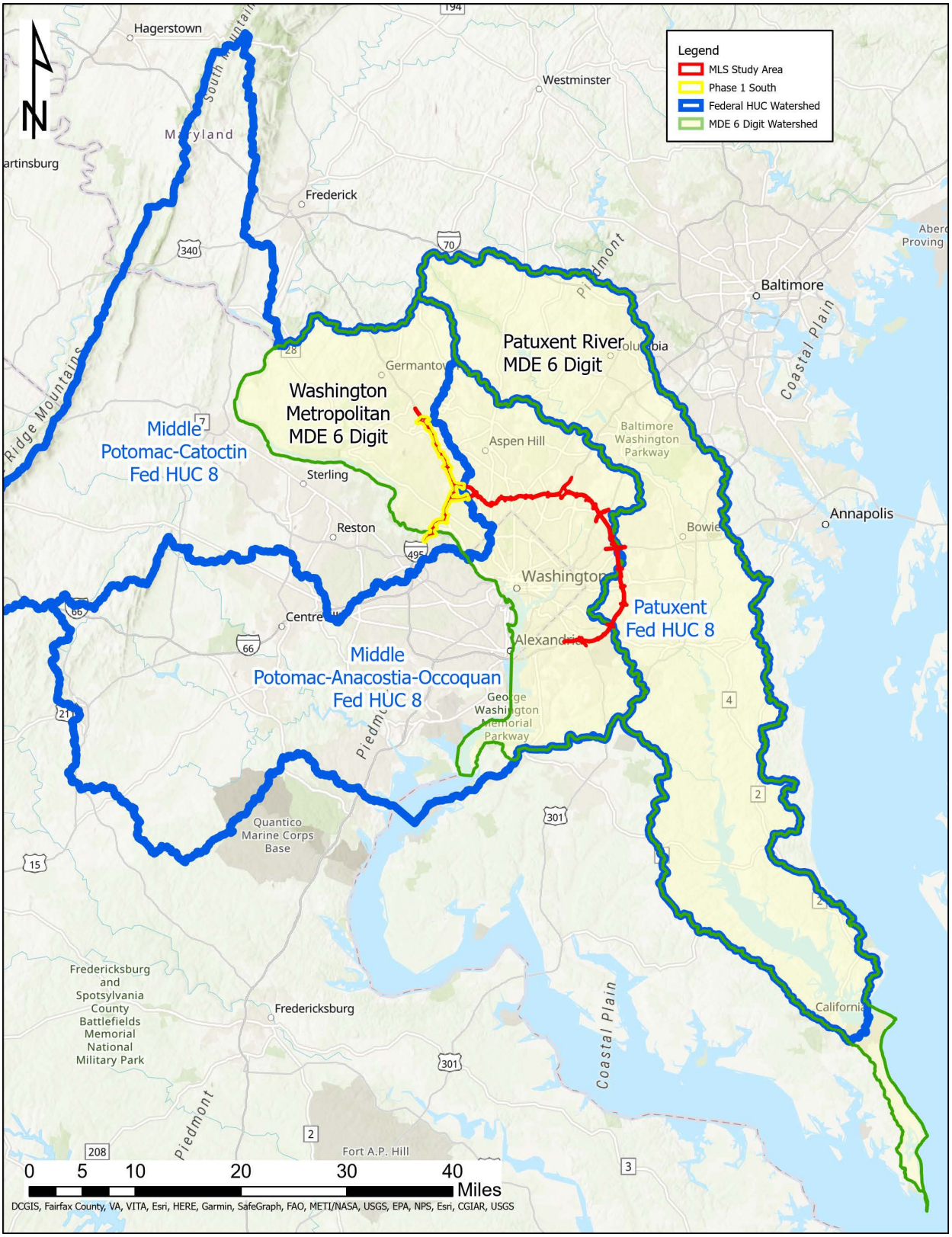
This document focuses on meeting the SWM requirements in Maryland, while Virginia has its own SWM requirements, which must also be met. All SWM requirements for the portion of Phase 1 South that is in Virginia, like Maryland, should be met on-site to the greatest extent practicable. If all SWM requirements cannot be met on-site, approved SWM crediting/banking off-site or an established payment in lieu agreement must be provided. In addition, the roadway and/or drainage changes associated with Phase 1 South in Virginia cannot worsen existing conditions or create any adverse conditions.

3 JOINT PERMIT APPLICATION REQUIREMENTS

Compensatory stormwater may impact regulated resources, and impacts must be authorized by United States Army Corps of Engineers (USACE) and MDE. The MLS Phase 1 South JPA will include compensatory stormwater impacts and all adjacent property owners will be notified of the JPA and will be provided an opportunity to comment of potential impacts during the JPA approval process.. While the SWM quality requirements for Maryland must be met within the same MDE 6-Digit Watershed as stormwater impacts are located, USACE and MDE regulations require that any wetlands and waterways impacts must be mitigated within the same Federal 8-Digit Hydrologic Unit Codes (HUC). Since the Federal 8-Digit Watersheds and MDE 6-Digit Watersheds are different, it is possible that SWM requirements could be met outside the Federal 8-Digit Watershed, but within the appropriate MDE 6-Digit Watershed.

The MLS Phase 1 South JPA is focused on the Federal 8-digit watershed where roadway impacts occur, and compensatory stormwater impacts are also located within this watershed. However, some stormwater sites that would not impact wetlands and waterways could be located in other Federal 8-digit watersheds.

Figure 2-1: MDE 6-Digit Watersheds and Federal 8-Digit HUCs Impacted by MLS



3.1 Determination of Stormwater Management

The MLS SWM requirement and estimated on-site SWM treatment have been documented in the SWM Studies. The MLS SWM requirements presented in this Plan are based on Alternative 9 as presented in the Draft EIS and Alternative 9 – Phase 1 South as presented in the Supplemental Draft EIS. Alternative 9 – Phase 1 South was identified as the MDOT SHA Preferred Alternative following the close of the Draft EIS comment period, therefore this Compensatory SWM Plan provides information related to Alternative 9 and Alternative 9 – Phase 1 South.

The SWM Studies outline the methodology and assumptions used to determine the water quality, or Impervious Area Requiring Treatment (IART), and water quantity requirements triggered by the MLS. Since water quantity must be met on-site, the SWM Studies prioritized SWM facility locations to meet quantity control requirements first, then provided quality control where feasible. The focus of this document is the IART requirements for water quality that are anticipated to be needed offsite for the MLS. The total IART requirement for the Alternative 9 is 715 acres and 206 acres for Alternative 9 – Phase 1 South. See **Table 3-1** for a breakdown of the IART requirements by the MLS Phases and MDE 6- Digit Watersheds impacted.

3.2 On-Site Stormwater Management and Compensatory Stormwater Mitigation

The I-495 and I-270 corridors are in heavily urbanized areas with numerous resources that limit the amount of SWM that can be provided practically on-site. The on-site constraints are discussed in detail in the SWM Studies. While the P3 Developer will be incentivized to provide as much on-site SWM as possible, it is likely that the entire MLS IART requirement will not be provided on-site. Therefore, SWM sites located outside the MLS LOD, but within the MDE WAS and PAX 6-Digit Watersheds, are likely to be required. SWM sites located outside the MLS LOD are called compensatory SWM sites.

Given the assumptions and constraints presented in the SWM Studies, the total estimated Impervious Area Treated (IAT) that can be met on-site is 364 acres for Alternative 9 and 92 acres for Alternative 9 – Phase 1 South. This leaves 351 acres of IAT to be provide outside the MLS LOD for Alternative 9 and 114 acres for Alternative 9 – Phase 1 South. See **Table 3-1** for breakdown of the estimated on-site IAT and subsequent compensatory SWM mitigation IART requirement by the MDE 6-Digit Watersheds and MLS Phases impacted.

While 351 acres is the estimated IART requirement for the Compensatory SWM Mitigation Plan, the intent of this document is to provide an excess of compensatory SWM sites for the P3 Developer's use in final design to further reduce impacts where possible and account for sites that may be found not to be feasible during final design.

Table 3-1: MLS SWM Requirements by MDE 6-Digit Watershed and Phase

MDE 6-Digit Watershed	Phase 1 South[1] / Future Phases SWM IART Requirement (AC)	Estimated On-Site Phase 1 South[1] / Future Phases SWM IAT Provided (AC)	Target Compensatory Phase 1 South[1] / Future Phases SWM IART Requirement (AC)
Washington Metropolitan (No. 021402)	206 / 411 (617 acres total)	92 / 208 (300 acres total)	114 / 203 (317 acres total)
Patuxent River (No. 021331)	0 / 98 (98 acres total)	0 / 64 (64 acres total)	0 / 34 (34 acres total)
Totals for All Impacted MDE Watersheds	206 / 509 (715 acres total)	92 / 272 (364 acres total)	114 / 237 (351 acres total)

[1] Represents SWM IART requirements associated with the Phase 1 South roadway work extending along I-495 from south of George Washington Parkway in Virginia to the intersection with the I-270 East Spur, I-270 East Spur in its entirety, and I-270 from the intersection with the I-270 East and West Spurs to the intersection with I-370.

4 COMPENSATORY STORMWATER MITIGATION SITE ASSESSMENT

4.1 Water Resources Site Search Desktop Evaluation

To identify potential compensatory SWM site locations, the Water Resources (WR) discipline performed desktop evaluations based on Geographic Information System (GIS) data, aerial imagery, and street view information. For the purposes of this evaluation, three (3) types of sites were identified; (1) potential SWM facilities, both Chapter 3 and Chapter 5[2], in or adjacent to MDOT SHA ROW, (2) stream restoration sites, and (3) pavement removal sites. When discussing the compensatory SWM sites in this document it will refer to SWM facility, stream restoration, and pavement removal sites collectively. Compensatory SWM sites were selected within the MDE WAS and PAX 6-Digit Watershed and Federal MPC, MPA, and PXT 8-Digit HUCs.

The WR discipline developed seven (7) protocols to ensure consistency in identifying potential sites; (1) a site search desktop evaluation protocol for identifying SWM facility and pavement removal sites, (2) a site search desktop evaluation protocol for identifying stream restoration sites, (3) GIS data management of the SWM sites, (4) GIS data management of the stream restoration sites, (5) a field assessment protocol for SWM facility sites, (6) a field assessment protocol for stream restoration sites, and (7) a QA/QC protocol. The full protocols can be found in **Appendix A**.

[2] Chapter 3 facilities are structural water quality facilities including ponds, wetlands, infiltration practices (infiltration trench or basin), filtering systems (surface and underground sand filters, bioretention facilities, etc.) and open channels. Chapter 5 facilities, also known as Environmental Site Design (ESD) facilities, are small-scale treatment practices including alternative surfaces, non-structural practices, micro-scale practices (swales, micro-bioretention facilities). For the purposes of this Plan, a focus was placed on micro-scale practices to provide treatment.

In general, SWM facility sites were selected to maximize impervious area draining to the site and proximity to the MDOT SHA ROW, while minimizing impacts to private properties and historic or environmental resources (trees, wetlands, waterways, 100-year floodplains, etc.). Each SWM facility is expected to meet a minimum of 1-inch treatment credit, which will provide full impervious area treatment credit for MDOT SHA impervious area. This means that the amount of MDOT SHA impervious area draining to the site is equal to the resultant IAT credit. For all non-MDOT SHA impervious area draining to the site, or for pavement removal, half of the impervious area treated or removed is the resultant IAT credit. The guidance given in the *Maryland Stormwater Design Manual, Volumes I and II*, dated October 2000, was used to select the appropriate SWM facility type to provide the full IAT credit.

Stream restoration sites were selected from a list of stream sites that were researched for stream mitigation. Unlike the SWM facility and pavement removal locations, the stream restoration sites are generally located outside MDOT SHA ROW and will have impacts to private properties and environmental resources but impacts to wetlands and waterways at these sites are assumed to be self-mitigating by nature. Impacts to trees resulting from construction activities, including access, are not considered self-mitigating. It will be the responsibility of the P3 Developer to determine the mitigation needs due to tree impacts.

Stream restoration sites were selected based on their current conditions demonstrating systematic impairments with unstable degradation/depositional areas, maximizing the treatment of an equivalent acreage of impervious area. The impervious treatment credit potential for stream restoration sites is assumed to be 0.01 IAT acre credit per linear foot of stream restored. This value is taken from MDE's *Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated, Guidance for National Pollutant Discharge Elimination System Stormwater Permits*, dated August 2014. The credit potential of 0.01 IAT credit per linear foot stream restored is a conservative estimate for the efforts detailed in this plan and during final design, the IAT credit that can be received for the stream restoration sites should be re-evaluated to determine if additional credit is warranted.

If during the WR discipline desktop evaluation a site was determined to impact known historic properties or significant environmental resources, the site was not pursued further and removed from consideration. A total of 827 areas were eliminated from further evaluation due to site constraints, limited impervious area draining to the site, or significant historic property or environmental resources impacts, see **Table 4-2**. Further avoidance and minimization efforts were made after all discipline evaluations and field assessments were performed and discussed in **Section 4.3**.

A total of 1,174 compensatory SWM sites, or more specifically potential LODs, were identified as viable by the WR discipline during the WR desktop evaluation and provided to all disciplines for further evaluation to meet the compensatory SWM IART requirements, see **Table 4-3**.

The full WR desktop evaluation can be found in **Appendix A**.

4.2 All Discipline Desktop Evaluations

To ensure full compliance with NEPA requirements, and inform the EIS, impacts to wetlands and waterways and ROW, were determined using desktop evaluations of compensatory SWM sites by all disciplines below. In addition to the desktop evaluations, the Water Resources, Forestry, and Wetland and Waterways Disciplines conducted field assessments to document existing field conditions, refer to **Section 4.3**. All evaluations were completed using the best data available at the time. The P3 Developer will be responsible for ensuring the accuracy of the information provided, furthering the design, and reducing impacts where feasible.

The discussions included are overviews of the various discipline evaluations performed. Detailed information can be found in each discipline's corresponding appendix provided in **Table 4-1** and a summary of each discipline's evaluation can be found in **Table 6-2**.

Table 4-1: All Discipline Appendices

Water Resources Evaluation	**Appendix A**
Cultural Resources (Archaeology and Historic Standing Structures) Evaluation	**Appendix B**
Forestry Evaluation	**Appendix C**
Hazardous Materials Evaluation	**Appendix D**
Maintenance of Traffic Evaluation	**Appendix E**
Wetlands and Waterways Evaluation	**Appendix F**
Right-of-Way Evaluation	**Appendix G**
Section 4(f)/Parks Evaluation	**Appendix H**
Structures Evaluation	**Appendix I**
Utilities Evaluation	**Appendix J**
Constructability Evaluation	**Appendix K**

4.2.1 Cultural Resources (Archeology and Historic Standing Structures)

The Cultural Resources (CR) discipline reviewed each compensatory SWM site to determine if conflicts exist with historic properties and/or archaeological sites based on available GIS data. The CR discipline also identified the level of difficulty in clearing a site during design and construction based on potential historical and/or archaeological impacts and agency consultation that may be required to clear those sites.

4.2.2 Forestry

The Natural Resources (NR) discipline conducted a Forestry review of each compensatory SWM site using GIS data to determine potential impacts to specimen trees and forests/tree canopies. Ultimately, however, a field evaluation was performed for each site to verify existing conditions. Refer to **Section 4.3** below for additional information pertaining to the field assessments performed.

4.2.3 Geotechnical

During the desktop evaluation stage, the Geotechnical discipline did not perform an evaluation, but were available to consult as needed.

4.2.4 Hazardous Materials

The Hazardous Materials (HAZMAT) discipline reviewed each compensatory SWM site to determine conflict with Potential Sites of Concern (PSOC) that include sites such as industrial facilities, service stations, dry cleaners, etc. that could have contaminated soils, groundwater, soil vapor, or debris using an environmental database search, historical aerial photographs, topographic maps, and other publicly available sources of information. HAZMAT identified the risk associated with each site based on their proximity to a PSOC.

4.2.5 Maintenance of Traffic

The Maintenance of Traffic (MOT) discipline reviewed each compensatory SWM site to determine the complexity of MOT based on current MDOT SHA design standards and implementation during construction operations at each site. These determinations were made using aerial imagery and street view information.

4.2.6 Wetlands and Waterways

The NR discipline conducted a preliminary wetlands and waterways desktop review of each compensatory SWM site using GIS data and other readily available data prior to conducting field delineations of wetlands and waterways within each site. Refer to **Section 4.3** below for additional information pertaining to the field assessments performed.

All compensatory SWM sites will be reviewed during final design for Rare, Threatened, and Endangered (RTE) species under Section 7 of the Endangered Species Act (ESA) of 1973 (16 U.S.C. Sections 1531-1544). Any sites that could potentially impact RTE species will be modified or eliminated to ensure that RTE species are not impacted.

4.2.7 Right-of-Way

The ROW discipline reviewed each compensatory SWM site to determine potential property impacts and level of difficulty in acquiring needed land, based on MDOT SHA ROW information and GIS data. Needed property could be acquired through fee simple acquisition, a Memorandum of Understanding (MOU) or Right of Entry (ROE) agreement for temporary or permanent easements for construction, and maintenance.

4.2.8 Section 4(f)

The Section 4(f) discipline reviewed the compensatory SWM sites for potential conflict with identified Section 4(f) properties based on GIS data and aerial imagery. Section 4(f) properties consist of both public parks and National Register of Historic Places-listed or eligible historic sites. This review of Section 4(f) properties was limited to potential conflicts with public parks as historic sites are addressed separately by the Cultural Resources discipline. The Section 4(f) discipline also preliminarily assessed the severity of impact each compensatory SWM site would have on the Section 4(f) properties identified.

Review of the compensatory SWM sites located on public parkland did not consider the source of funding used to acquire or develop the park properties as funding information was not available at the time of this review. Therefore, involvement of Section 6(f) Land and Water Conservation Fund Act (LWCF) funding or Maryland Program Open Space (POS) funding has not yet been determined.

In response to feedback received from FHWA, efforts were taken to further reduce or eliminate the potential use of Section 4(f) property for compensatory SWM sites. As a result of those efforts, all compensatory SWM sites that would incur a use of Section 4(f) properties were eliminated. Therefore, there is currently no proposed use of Section 4(f) property resulting from compensatory SWM sites.

4.2.9 Structures

The Structures discipline reviewed compensatory SWM sites which were identified as potential structural SWM facilities (underground SWM facilities) or those sites which would require or impact structural features, such as retaining walls, to determine design feasibility and constructability concerns based on information provided by the WR discipline, aerial imagery, and street view information.

4.2.10 Survey

During the desktop evaluation stage, the Survey discipline did not perform an evaluation, but were available to consult as needed.

4.2.11 Utilities

The Utilities discipline reviewed each compensatory SWM site to determine utility impacts based on surface indicators seen in aerial imagery, street view information, or WR/NR field photos and GIS data.

4.2.12 Constructability

The Constructability discipline reviewed each compensatory SWM facility sites to determine design feasibility and potential site access and conflicts based on information provided by the WR discipline, aerial imagery, and street view information.

4.3 Field Assessments

The WR and NR disciplines performed field assessments in addition to the desktop evaluations provided in the section above. Field assessments for these disciplines were deemed essential to accurately document existing conditions, set a feasible LOD, and determine environmental impacts at the compensatory SWM sites.

4.3.1 Water Resources

The WR discipline performed field assessments of each compensatory SWM site to identify existing features, verify drainage patterns to confirm the potential impervious area draining to the site, identify site constraints (including surface utility indicators, slopes along site, trees, and other environmental resources along site), and document the SWM site and MDOT SHA outfall conditions. Information and data collected during the site visits were subsequently shared will all disciplines to assist in their evaluations.

The pertinent results from the WR discipline field assessments can found in **Appendix A**.

4.3.2 Natural Resources (Forestry and Wetlands and Waterways)

The NR discipline performed concurrent compensatory SWM site field assessments. During the field assessments for Forestry, the team identified specimen trees and verified forest boundaries. During the field assessments for Wetlands and Waterways, the team conducted wetland and waterway delineations to determine impacts at each site. In addition, the delineations performed during the field assessments were captured in GIS format and provided to all disciplines for review.

Regulatory agency field reviews of the wetland and waterway delineations are in-process. Discussion and results resulting from the agency field reviews will be added to this document as the information becomes available.

Summaries of the NR field assessments can be found in **Appendix C** and **Appendix F**. In addition, the environmental resources identified during the field assessments can be found on the mapping provided in **Appendix L** and resource impacts can be found in the tables provided in **Appendix M**.

4.4 NEPA Limit of Disturbance Determination

The LOD at each site, as initially determined by the WR discipline, was based on the desktop evaluation. The evaluation was set based on potential facility type with consideration given to filter media depth and outfall requirements, freeboard requirements, and grading potential. Additional considerations included access during construction; typical construction methods; and consideration for Erosion and Sediment Control (ESC)/Maintenance of Streamflow (MOS) measures. All factors were evaluated while limiting impacts to historic properties and environmental resources.

The LODs developed by the WR discipline were vetted by all disciplines during their desktop evaluations and/or field assessments. If any discipline indicated that the LOD should be expanded or refined, the WR discipline revised the LOD accordingly and recirculated for review. Typically, the following LOD adjustments were made:

A. Additional LOD for MOT considerations, construction staging and stockpile areas, and structural constructability concerns.
B. Reduction of LOD to avoid or minimize impacts to trees, wetlands, waterways, historic properties, archaeological sites, private properties, parklands, or other as identified during discipline reviews.
C. Additional LOD or reduction of LOD based on WR discipline field visits and based on existing site conditions and constraints.

The removal or refinement of LODs, as indicated above, were completed to avoid and minimize impacts to historic properties and environmental resources as identified. In addition to reducing the LODs, 327 sites were removed from consideration after the WR field assessments and subsequent discipline evaluations identified site constraints, limited impervious area draining to the site, impacts to historic properties or archaeological sites, environmental concerns and/or significant environmental resources impacts. An additional 58 sites were removed from consideration due to impacts to Section 4(f) properties identified as parkland and historic properties including potential archaeological sites, and 60 sites were

removed from consideration after the NR field assessments identified significant impacts to environmental features. Refer to **Table 4-2** for full list of avoidance and minimization efforts to date. Further avoidance and minimization will occur during the final design by the P3 Developer.

The LODs for each compensatory SWM site can be found on the mapping provided in **Appendix L** and the LOD impacts can be found in the tables provided in **Appendix M**.

4.5 Avoidance and Minimization

While avoidance and minimization of impacts to identified historic properties and environmental resources, including trees, wetlands, and waterways, occurred at the desktop evaluation and field assessment stages, avoidance and minimization efforts will continue under the P3 Developer during design and permitting of any compensatory SWM site. If during final design compensatory SWM sites are added or modified, resulting in a Section 4(f) use of a public park or historic property, evaluation of additional avoidance and minimization measures will be required in consultation with Maryland Historic Trust (MHT) and under Section 4(f). For sites that have impacts to trees, wetlands, and waterways, further efforts to avoid and minimize impacts to these resources must be taken. If mitigation cannot occur on-site, then off-site locations should be identified by the P3 Developer. Avoidance and minimization efforts to date are shown in **Table 4-2** below.

Table 4-2: Compensatory SWM Avoidance and Minimization Efforts Summary

Compensatory SWM Stage	Number of Sites Removed from Consideration	Reason
WR Desktop Evaluations	920	Significant impacts to private properties and environmental resources, limited impervious area draining to site, and difficult site conditions.
All Disciplines Desktop Evaluations & WR Field Assessments	327	Significant impacts to visually confirmed environmental resources, limited impervious area draining to site, and difficult site conditions including environmental concerns (documented HAZMAT spill site, etc.).
Section 4(f) Property Impacts	58	Impacts to Section 4(f) properties (including parkland and historic properties) and potential archaeological sites
NR Field Assessments	60	Significant impacts to environmental resources.
Total Sites Removed from Consideration:	1,365	

Table 4-3: Compensatory SWM Sites Progression

Compensatory SWM Site Stage	Number of Sites
Sites Identified by WR Team During Desktop Evaluation	2,119
Sites Delivered to All Disciplines (removed 920 sites* determined not feasible during WR Team Desktop Evaluation)	1,199
Vetted Compensatory SWM Sites (removed 445 sites[3] through NEPA vetting process)	754

[3] See **Table 4-2** for more information

For additional avoidance and minimization requirements as part of the MLS, please refer to *the Avoidance, Minimization, and Impacts Report*, dated April 15, 2020, and contained in the MLS JPA.

5 P3 DEVELOPER RESPONSIBILITY

5.1 Further Analysis and Final Design

As previously indicated, all discipline evaluations were completed using the best information available at the time this document was prepared. The P3 Developer will be required to review and verify that the data sources used for the evaluations are current and should incorporate any new data that has become available and re-evaluate the compensatory SWM sites accordingly.

The discussions included in this section are overviews of what can be expected regarding obtaining final clearances and permits during design and construction under each discipline. More information can be found in each discipline's corresponding appendix presented in **Table 4-1**.

5.1.1 Cultural Resources (Archaeology and Historic Standing Structures)

All evaluations from the CR discipline are recommendations and the P3 Developer will be required to verify and coordinate with Local, State, and Federal entities during final design to obtain clearances for the compensatory SWM sites that may conflict with historic and archaeological sites.

5.1.2 Forestry

The P3 Developer will be responsible for conducting forest assessments and determining the final forest impacts during permitting of the final design at each compensatory SWM site and obtaining the Maryland Reforestation Law (MD Natural Resources Code § 5-103) approval. In addition, opportunities for on-site reforestation should be identified by the P3 Developer, and where those opportunities exist, the P3 Developer will be responsible for preparing a landscape plan in accordance with MDOT SHA standards to mitigate as much forest impact on site as feasible. For forest impacts that cannot be mitigated on-site, the P3 Developer can refer to the MLS Maryland Reforestation Law Mitigation Site Search Report to identify potential mitigation opportunities according to the Maryland Reforestation Law mitigation hierarchy.

5.1.3 Geotechnical

The P3 Developer will be responsible for obtaining all soil borings and test pits to support the final design and permitting for the compensatory SWM sites. All soil borings and test pits should conform to Federal and MDOT SHA standards.

5.1.4 Hazardous Materials

Additional investigation by the P3 Developer will be required to characterize soil and groundwater conditions at the compensatory SWM sites. If contaminated materials are found on or adjacent to a site, an MDE approved plan documenting the handling, disposal, and/or capping the contaminated materials will be required by MDE.

5.1.5 Maintenance of Traffic

The P3 Developer will be responsible for the final MOT design in accordance with MDOT SHA design standards at each compensatory SWM site. In addition, the P3 Developer will be responsible for obtaining an MOT permit from MODT SHA or any local jurisdiction and an MDOT SHA Access Permit as applicable.

5.1.6 Wetlands and Waterways

The P3 Developer shall continue to avoid and minimize impact to wetlands and waterways during final design and will be responsible for determining the final wetland and waterways impacts at each compensatory SWM site. The P3 Developer is responsible for modifying the appropriate permits from MDE Nontidal Wetlands and Waterways (NTW/W), and USACE for impact changes to compensatory SWM approved under the MLS Phase 1 South JPA. If final design results in increased impacts to wetlands and waterways, the P3 Developer shall identify mitigation to compensate for additional impacts. For compensatory SWM not approved under the MLS Phase 1 South JPA, the P3 Developer will be responsible for obtaining USACE and NTW/W approvals including any permit modification, ensuring adequate mitigation is included to compensate for impacts, and notifying adjacent property owners prior to construction.

The P3 Developer will be responsible for identifying potential impacts to RTE and providing the appropriate avoidance and minimization strategies to ensure that RTE species are not impacted.

5.1.7 Right-of-Way

The P3 Developer will be responsible for identifying and obtaining the temporary and permanent easements and/or fee simple acquisitions necessary to construct, operate and maintain the compensatory SWM sites. This also includes obtaining surveyed metes and bounds information for all existing easement, ROW, and parcel lines to determine final impact numbers.

5.1.8 Section 4(f)

All evaluations from the Section 4(f) discipline presented in this report are preliminary in nature and do not include assessments of Section 106 properties. Although, the current compensatory SWM sites would not require the use of Section 4(f) properties, it is possible that changes made during final design

could result in a Section 4(f) use. If the use of one or more Section 4(f) properties is determined during final design to be necessary, the P3 Developer will be required to verify impacts, evaluate avoidance and minimization measures, and coordinate with MDOT SHA, FHWA, and any relevant officials with jurisdiction over Section 4(f) properties to obtain Section 4(f) approval.

5.1.9 Structures

The P3 Developer will be responsible for the final structural design for any sites that require a structural component in accordance with MDOT SHA design standards at each compensatory SWM site.

5.1.10 Survey

The P3 Developer will be responsible for surveying the metes and bounds of all existing easements, ROW, and parcel lines and for the development of plats for permitting and construction activities. In addition, the P3 Developer will be responsible for surveying existing conditions (including ground elevations, structural elevations, environmental features, utility locations, etc.) at each compensatory SWM site to be used for final design.

5.1.11 Utilities

The P3 Developer will be responsible for the final utility designations, including survey and test pits, and relocation designs for any compensatory SWM sites where there is a utility conflict. All utility designations and relocation designs must be in accordance with MDOT SHA and the individual utility company's design standards. The P3 Developer will also be responsible for obtaining all appropriate permits and/or agreements from the individual utility companies.

5.1.12 Constructability

The P3 Developer will be responsible for the final design and construction in accordance with MDOT SHA standards at each compensatory SWM site within the LODs identified to maximum extent practicable.

5.1.13 Water Resources

The P3 Developer will be responsible for final design of all compensatory SWM sites to ensure the IART goals of the MLS are met, and the site designs follow MODT SHA and MDE design standards. This includes obtaining permits from MDOT SHA Plan Review Division (PRD), MDE NTW/W, and MDE Dam Safety Division (DSD) as applicable for each site.

5.2 Permitting Requirements

Beyond typical requirements described in **Section 5.1**, the P3 Developer must follow all current Local, State, and Federal design standards and regulations. It will be the responsibility of the P3 Developer to ensure use of the latest design standards and regulations. In addition, commitments that are part of the MLS JPA or EIS, requirements as indicated in the MLS Technical Requirements (TR), and agreements established during the P3-Developer Programmatic Agreement (PA) process must be met.

6 CONCLUSION

Based on the 754 vetted compensatory SWM sites, see **Table 4-3**, this Compensatory SWM Mitigation Plan provides up to 663 acres of water quality treatment (IAT) for Alternative 9 and 298 acres for Alternative 9 – Phase 1 South, which exceeds the compensatory IART requirement, for the P3 Developer to determine site feasibility and final design. This document and sites selected present a workable plan to meet the MLS SWM IART requirements. See **Table 6-1** for potential IAT credit provided by the compensatory SWM sites broken down by the MLS Phases and MDE 6-Digit Watersheds impacted and **Appendix A** for detailed information.

Table 6-1: Compensatory SWM Potential by MDE 6-Digit Watershed

MDE 6-Digit Watershed	Target Compensatory Phase 1 South[1] / Future Phases SWM IART Requirement (AC)	Compensatory Phase 1 South[1] / Future Phases SWM IAT Potential[4] (AC)
Washington Metropolitan (No. 021402)	114 / 203 (317 acres total)	298 / 279 (577 acres total)
Patuxent River (No. 021331)	0 / 34 (34 acres total)	0 / 86 (86 acres total)
Totals for All Impacted MDE Watersheds	114 / 237 (351 acres total)	298 / 365 (663 acres total)

[1] Represents SWM IART requirements associated with the Phase 1 South roadway work extending along I-495 from south of George Washington Parkway in Virginia to the intersection with the I-270 East Spur, I-270 East Spur in its entirety, and I-270 from the intersection with the I-270 East and West Spurs to the intersection with I-370.

[4] The compensatory IAT potential provided is more than the MLS compensatory IART requirement. The intent is to provide an excess of compensatory SWM sites for the P3 Developer's use in final design to further reduce impacts where possible and account for sites which may prove not feasible during final design.

Figure 6-1: Compensatory SWM Sites within the MDE Washington Metropolitan 6-Digit Watershed and Federal Middle Potomac – Catoctin & Anacostia-Occoquan 8-Digit HUCs

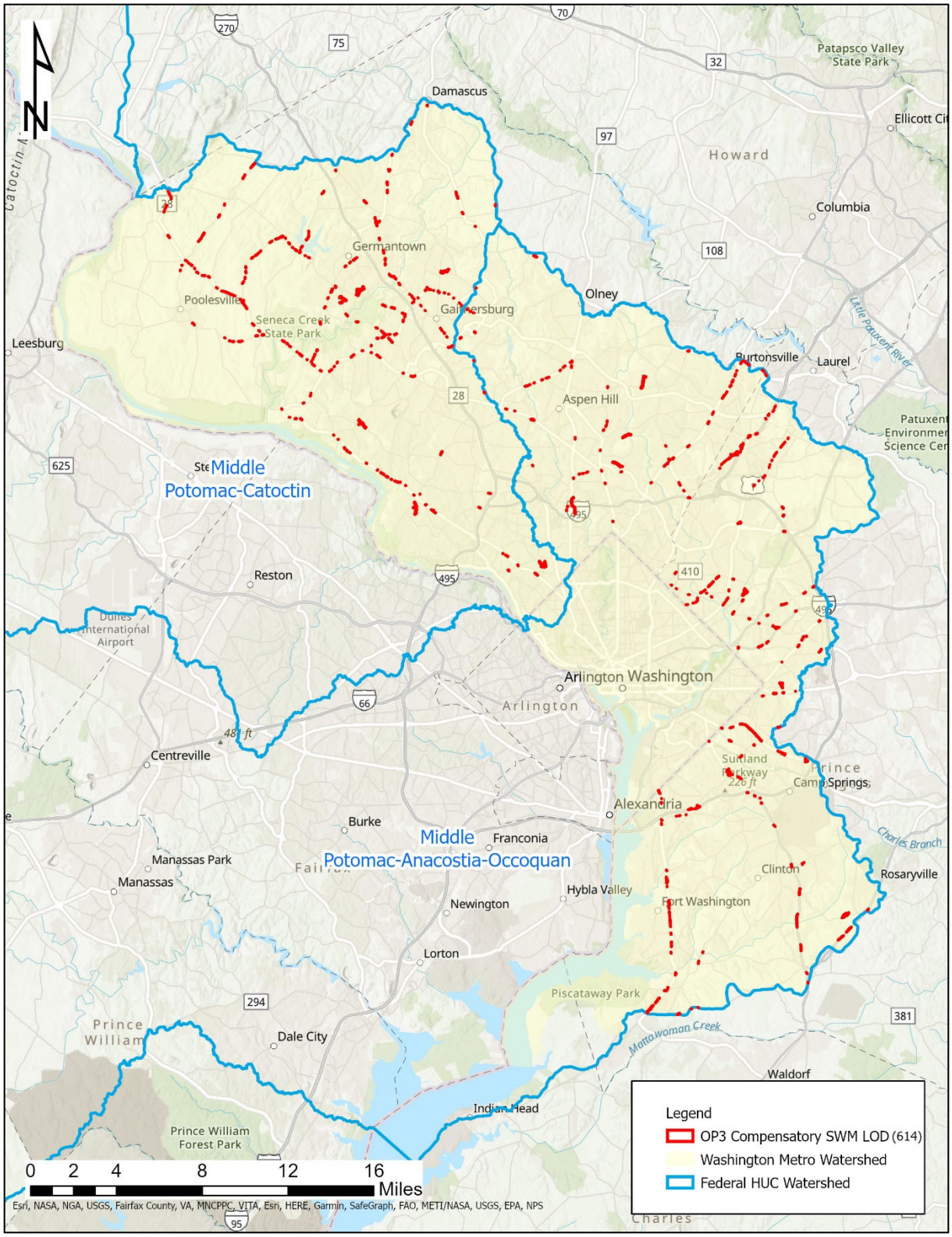
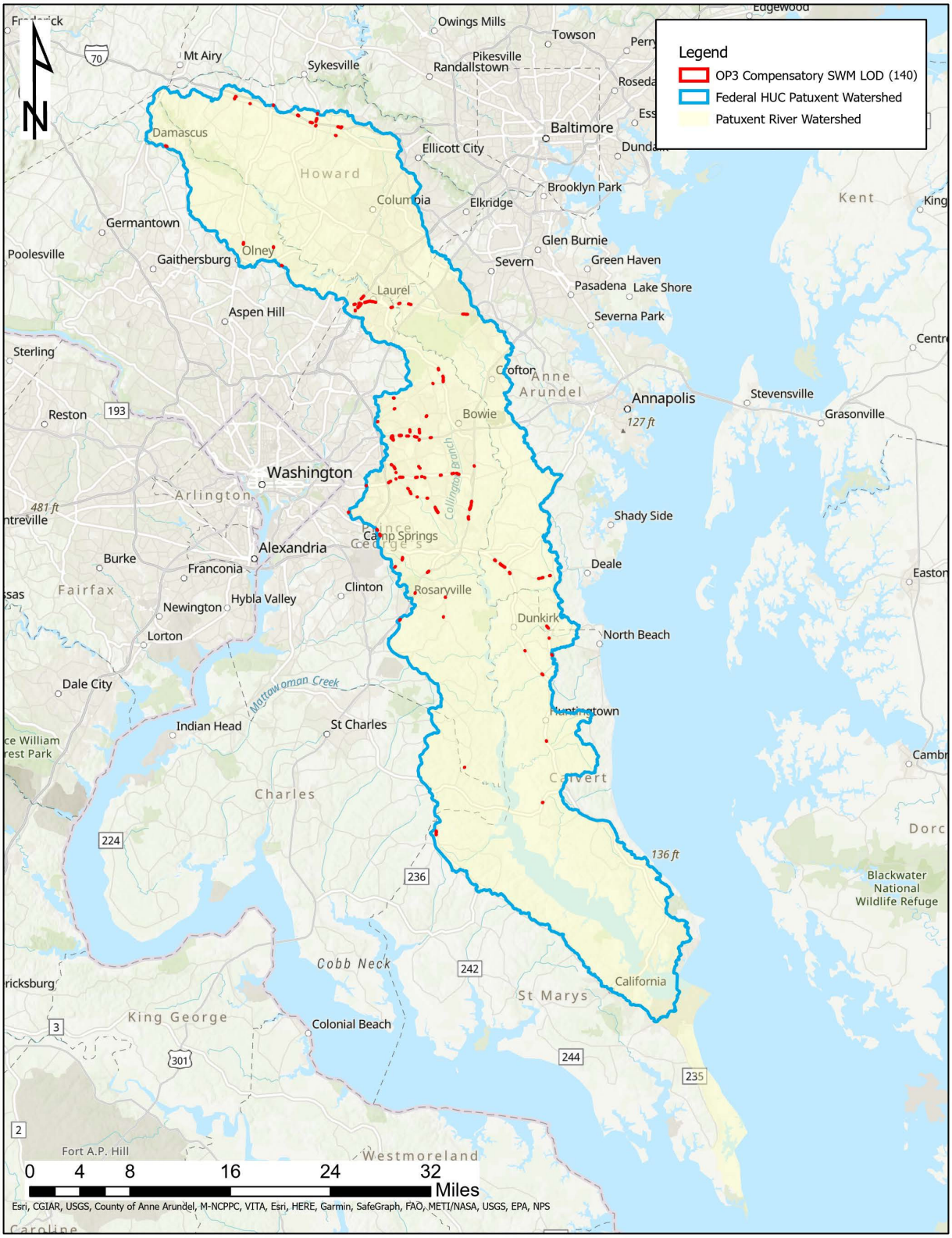


Figure 6-2: Compensatory SWM Sites within the MDE Patuxent River 6-Digit Watershed and Federal Patuxent 8-Digit HUCs



The P3 Developer is not required to use any of the compensatory SWM sites presented in this document. If the P3 Developer chooses to find alternate locations or provide additional SWM on-site to meet the MLS water quality requirements, the P3 Developer will be responsible for the full vetting of those sites and the reevaluation of environmental documents and modification of permits as needed. The final impacts, consisting of sites from this document and/or others, should not exceed those presented in the MLS JPA.

The P3 Developer is encouraged to avoid and minimize impacts to historic and environmental resources and utilize sites as close to the MLS LOD as feasible during final design. In addition, if the P3 Developer can find alternate sites which would have no or fewer impacts, doing so is encouraged and the full vetting and permitting of those sites are the responsibility of the P3 Developer and final impacts should not exceed those presented in the MLS Phase 1 South JPA, EIS, and this document as it relates to MLS phases. If the final impacts based on final design of any compensatory SWM site exceeds those identified, the discipline evaluations as presented in this document would be subject to re-evaluation.

To assist the P3 Developer in being able to quickly begin SWM site selections and final design, **Table 6-2** is offered to provide a high-level overview of potential impacts at each compensatory SWM site identified in this document. Since the first phase of design and construction is Phase 1 South, the P3 Developer will be required to select compensatory SWM sites located in the MDE WAS 6-Digit Watershed and Federal MNC 8-Digit HUC before moving to other sites due to the requirements discussed in **Section 2** and **Section 3** of this document. The compensatory SWM sites identified as “Phase 1 South” in **Table 6-2** are those that fall within the MDE WAS 6-Digit Watershed and Federal MNC 8-Digit HUC and are sites that meet both the MDE SWM and MLS Phase 1 South JPA requirements.

Table 6-2: Compensatory SWM Menu of Sites

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
PAX-0014	Future Phase	021311	02060006	SWM Facility - Ch 5	0.33	Moderate	Clear	No Impact	Low	Long Term	Minor	Minor	None	N/A	OH
PAX-0016	Future Phase	021311	02060006	SWM Facility - Ch 3	1.47	Moderate	Clear	No Impact	Low	Temp/Daily	Moderate	Minor	None	N/A	OH & UG
PAX-0017	Future Phase	021311	02060006	SWM Facility - Ch 5	0.57	Significant	Clear	No Impact	Low	Long Term	Moderate	Minor	None	N/A	OH & UG
PAX-0018	Future Phase	021311	02060006	SWM Facility - Ch 5	0.50	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
PAX-0019	Future Phase	021311	02060006	SWM Facility - Ch 5	0.56	Significant	Clear	No Impact	Low	Temp/Daily	Minor	Minor	None	N/A	OH & UG
PAX-0020	Future Phase	021311	02060006	SWM Facility - Ch 5	0.16	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
PAX-0022	Future Phase	021311	02060006	SWM Facility - Ch 5	0.15	Significant	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
PAX-0026	Future Phase	021311	02060006	SWM Facility - Ch 5	0.24	Moderate	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
PAX-0029	Future Phase	021311	02060006	SWM Facility - Ch 5	0.41	Moderate	Clear	No Impact	Low	Complex	No Impacts	Minor	None	N/A	Not Feasible
PAX-0030	Future Phase	021311	02060006	SWM Facility - Ch 5	1.10	Moderate	Clear	Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	Not Feasible
PAX-0034	Future Phase	021311	02060006	SWM Facility - Ch 5	0.34	Moderate	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-0039	Future Phase	021311	02060006	SWM Facility - Ch 5	0.19	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
PAX-0041	Future Phase	021311	02060006	SWM Facility - Ch 5	0.22	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
PAX-0042	Future Phase	021311	02060006	SWM Facility - Ch 5	0.62	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
PAX-0045	Future Phase	021311	02060006	Pavement Removal	0.01	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
PAX-0046	Future Phase	021311	02060006	SWM Facility - Ch 5	0.31	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-0047	Future Phase	021311	02060006	SWM Facility - Ch 5	0.62	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-0048	Future Phase	021311	02060006	SWM Facility - Ch 5	0.35	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
PAX-0049	Future Phase	021311	02060006	SWM Facility - Ch 5	0.20	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-0051	Future Phase	021311	02060006	SWM Facility - Ch 5	0.18	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
PAX-0059	Future Phase	021311	02060006	SWM Facility - Ch 5	0.40	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-0061	Future Phase	021311	02060006	SWM Facility - Ch 5	0.64	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
PAX-0062	Future Phase	021311	02060006	SWM Facility - Ch 5	0.51	Minor	Clear	No Impact	Low	Long Term	Minor	Minor	None	N/A	OH
PAX-0063	Future Phase	021311	02060006	SWM Facility - Ch 5	0.09	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
PAX-0064	Future Phase	021311	02060006	SWM Facility - Ch 5	0.37	Minor	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	UG
PAX-0076	Future Phase	021311	02060006	SWM Facility - Ch 5	0.32	Moderate	Clear	Impact	Low	Long Term	Minor	Medium	None	N/A	UG
PAX-0080	Future Phase	021311	02060006	SWM Facility - Ch 5	0.26	Minor	Clear	No Impact	Low	Long Term	Minor	Minor	None	N/A	None
PAX-0301	Future Phase	021311	02060006	SWM Facility - Ch 5	0.52	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Hard	None	N/A	OH & UG
PAX-0302	Future Phase	021311	02060006	SWM Facility - Ch 5	0.21	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Hard	None	N/A	OH & UG
PAX-0304	Future Phase	021311	02060006	SWM Facility - Ch 5	0.98	Minor	Clear	No Impact	Low	Long Term	No Impacts	Hard	None	N/A	OH & UG
PAX-0305	Future Phase	021311	02060006	SWM Facility - Ch 5	0.58	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Hard	None	N/A	OH & UG
PAX-0308	Future Phase	021311	02060006	SWM Facility - Ch 5	0.47	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Medium	None	N/A	None
PAX-0310	Future Phase	021311	02060006	SWM Facility - Ch 5	0.11	Moderate	Clear	No Impact	Low	Long Term	Moderate	Medium	None	N/A	OH & UG
PAX-0311	Future Phase	021311	02060006	SWM Facility - Ch 5	0.48	Minor	Clear	No Impact	Low	Long Term	No Impacts	Medium	None	N/A	OH
PAX-0312	Future Phase	021311	02060006	SWM Facility - Ch 5	0.38	Moderate	Clear	Impact	Low	Long Term	No Impacts	Medium	None	N/A	OH
PAX-0313	Future Phase	021311	02060006	SWM Facility - Ch 5	0.16	Moderate	Clear	No Impact	Low	Long Term	Minor	Medium	None	N/A	UG
PAX-0315	Future Phase	021311	02060006	SWM Facility - Ch 3	0.77	Minor	Clear	Impact	Low	Long Term	Minor	Medium	None	N/A	OH
PAX-0601	Future Phase	021311	02060006	SWM Facility - Ch 5	0.33	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
PAX-0602	Future Phase	021311	02060006	SWM Facility - Ch 5	0.45	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
PAX-0608	Future Phase	021311	02060006	SWM Facility - Ch 5	0.18	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
PAX-0610	Future Phase	021311	02060006	SWM Facility - Ch 5	0.26	Minor	Minor	Impact	High	Temp/Daily	Minor	Hard	None	N/A	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
PAX-0616	Future Phase	021311	02060006	SWM Facility - Ch 5	0.31	Minor	Clear	Impact	Low	Long Term	Minor	Minor	None	N/A	UG
PAX-0618	Future Phase	021311	02060006	SWM Facility - Ch 5	0.45	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
PAX-0620	Future Phase	021311	02060006	SWM Facility - Ch 5	0.36	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-0621	Future Phase	021311	02060006	SWM Facility - Ch 5	0.76	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-0622	Future Phase	021311	02060006	SWM Facility - Ch 5	0.32	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-0624	Future Phase	021311	02060006	SWM Facility - Ch 3	0.76	Minor	Clear	Impact	High	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
PAX-0625	Future Phase	021311	02060006	SWM Facility - Ch 5	0.46	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
PAX-0626	Future Phase	021311	02060006	SWM Facility - Ch 5	0.38	Significant	Clear	No Impact	Low	Long Term	No Impacts	Medium	None	N/A	OH & UG
PAX-0641	Future Phase	021311	02060006	SWM Facility - Ch 5	0.48	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-0951	Future Phase	021311	02060006	SWM Facility - Ch 5	0.09	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
PAX-0961	Future Phase	021311	02060006	SWM Facility - Ch 5	0.56	Minor	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	None
PAX-0965	Future Phase	021311	02060006	SWM Facility - Ch 5	0.15	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
PAX-1204	Future Phase	021311	02060006	SWM Facility - Ch 5	0.27	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-1205	Future Phase	021311	02060006	SWM Facility - Ch 5	0.15	Minor	Clear	Impact	Low	Long Term	Minor	Medium	None	N/A	None
PAX-1206	Future Phase	021311	02060006	SWM Facility - Ch 5	0.43	Significant	Clear	Impact	Low	Long Term	No Impacts	Medium	None	N/A	OH
PAX-1209	Future Phase	021311	02060006	SWM Facility - Ch 5	0.16	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
PAX-1210	Future Phase	021311	02060006	SWM Facility - Ch 5	0.34	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Hard	None	N/A	None
PAX-1211	Future Phase	021311	02060006	SWM Facility - Ch 5	0.26	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-1213	Future Phase	021311	02060006	SWM Facility - Ch 5	0.18	Minor	Clear	No Impact	Low	Complex	No Impacts	Minor	None	N/A	None
PAX-1502	Future Phase	021311	02060006	SWM Facility - Ch 5	0.82	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
PAX-1504	Future Phase	021311	02060006	SWM Facility - Ch 5	0.17	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
PAX-1509	Future Phase	021311	02060006	SWM Facility - Ch 5	0.58	Moderate	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	OH
PAX-1510	Future Phase	021311	02060006	SWM Facility - Ch 5	0.11	Significant	Clear	No Impact	High	Long Term	No Impacts	Medium	None	N/A	OH
PAX-2001	Future Phase	021311	02060006	SWM Facility - Ch 3	0.92	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
PAX-2005	Future Phase	021311	02060006	SWM Facility - Ch 5	0.54	Significant	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
PAX-2006	Future Phase	021311	02060006	SWM Facility - Ch 5	0.73	Moderate	Clear	No Impact	Low	Complex	No Impacts	Minor	None	N/A	None
PAX-2007	Future Phase	021311	02060006	SWM Facility - Ch 5	1.03	Moderate	Clear	No Impact	Low	Complex	No Impacts	Minor	None	N/A	None
PAX-2008	Future Phase	021311	02060006	SWM Facility - Ch 5	1.01	Moderate	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
PAX-2009	Future Phase	021311	02060006	SWM Facility - Ch 5	0.34	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
PAX-2010	Future Phase	021311	02060006	SWM Facility - Ch 5	0.34	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
PAX-2012	Future Phase	021311	02060006	SWM Facility - Ch 5	0.60	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
PAX-2013	Future Phase	021311	02060006	SWM Facility - Ch 5	0.37	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2015	Future Phase	021311	02060006	SWM Facility - Ch 3	0.83	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
PAX-2016	Future Phase	021311	02060006	SWM Facility - Ch 5	0.47	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Medium	None	N/A	OH & UG
PAX-2017	Future Phase	021311	02060006	SWM Facility - Ch 5	0.21	Moderate	Clear	No Impact	Moderate	Complex	No Impacts	Minor	None	N/A	UG
PAX-2018	Future Phase	021311	02060006	SWM Facility - Ch 5	0.97	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Medium	None	N/A	None
PAX-2019	Future Phase	021311	02060006	SWM Facility - Ch 5	1.07	Moderate	Clear	Impact	Low	Long Term	No Impacts	Medium	None	N/A	UG
PAX-2020	Future Phase	021311	02060006	SWM Facility - Ch 3	0.39	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2021	Future Phase	021311	02060006	SWM Facility - Ch 5	0.09	Moderate	Clear	No Impact	Moderate	Complex	No Impacts	Hard	None	N/A	OH
PAX-2501	Future Phase	021311	02060006	SWM Facility - Ch 5	0.57	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2502	Future Phase	021311	02060006	SWM Facility - Ch 5	0.57	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
PAX-2503	Future Phase	021311	02060006	SWM Facility - Ch 5	0.40	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
PAX-2504	Future Phase	021311	02060006	SWM Facility - Ch 5	0.13	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2505	Future Phase	021311	02060006	SWM Facility - Ch 5	0.24	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2506	Future Phase	021311	02060006	SWM Facility - Ch 5	0.69	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2507	Future Phase	021311	02060006	SWM Facility - Ch 5	0.24	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2508	Future Phase	021311	02060006	SWM Facility - Ch 5	0.37	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2509	Future Phase	021311	02060006	SWM Facility - Ch 5	0.43	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2510	Future Phase	021311	02060006	SWM Facility - Ch 5	0.53	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
PAX-2511	Future Phase	021311	02060006	SWM Facility - Ch 5	0.45	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2514	Future Phase	021311	02060006	SWM Facility - Ch 5	0.54	Moderate	Clear	No Impact	Low	Long Term	Minor	Minor	None	N/A	None
PAX-2515	Future Phase	021311	02060006	SWM Facility - Ch 5	0.73	Moderate	Clear	No Impact	Low	Long Term	Minor	Minor	None	N/A	None
PAX-2516	Future Phase	021311	02060006	SWM Facility - Ch 5	1.23	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2518	Future Phase	021311	02060006	SWM Facility - Ch 5	0.30	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
PAX-2519	Future Phase	021311	02060006	SWM Facility - Ch 5	0.30	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2520	Future Phase	021311	02060006	SWM Facility - Ch 5	0.44	Minor	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	UG
PAX-2521	Future Phase	021311	02060006	SWM Facility - Ch 5	0.30	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2522	Future Phase	021311	02060006	SWM Facility - Ch 5	0.33	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
PAX-2523	Future Phase	021311	02060006	SWM Facility - Ch 5	0.18	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
PAX-2524	Future Phase	021311	02060006	SWM Facility - Ch 5	0.34	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	None
PAX-2525	Future Phase	021311	02060006	SWM Facility - Ch 5	0.51	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
PAX-2529	Future Phase	021311	02060006	SWM Facility - Ch 5	0.44	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Medium	None	N/A	UG
PAX-2530	Future Phase	021311	02060006	SWM Facility - Ch 5	0.19	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Medium	None	N/A	UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
PAX-2531	Future Phase	021311	02060006	SWM Facility - Ch 5	0.24	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
PAX-2537	Future Phase	021311	02060006	SWM Facility - Ch 5	0.34	Minor	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	None
PAX-2538	Future Phase	021311	02060006	SWM Facility - Ch 5	0.15	Minor	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	None
PAX-2539	Future Phase	021311	02060006	SWM Facility - Ch 5	0.43	Minor	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	None
PAX-2540	Future Phase	021311	02060006	SWM Facility - Ch 5	0.31	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
PAX-2541	Future Phase	021311	02060006	SWM Facility - Ch 5	0.38	Minor	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	None
PAX-2542	Future Phase	021311	02060006	SWM Facility - Ch 5	0.43	Minor	Clear	No Impact	Moderate	Long Term	Minor	Minor	None	N/A	None
PAX-2559	Future Phase	021311	02060006	SWM Facility - Ch 5	0.59	Moderate	Clear	No Impact	Moderate	Long Term	Moderate	Minor	None	N/A	UG
PAX-2560	Future Phase	021311	02060006	SWM Facility - Ch 5	0.24	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-2561	Future Phase	021311	02060006	SWM Facility - Ch 5	0.51	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-3002	Future Phase	021311	02060006	SWM Facility - Ch 5	0.12	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
PAX-3003	Future Phase	021311	02060006	SWM Facility - Ch 5	1.76	Moderate	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-3004	Future Phase	021311	02060006	SWM Facility - Ch 5	0.12	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-3005	Future Phase	021311	02060006	SWM Facility - Ch 5	0.31	Moderate	Clear	No Impact	High	Long Term	No Impacts	Minor	None	N/A	None
PAX-3006	Future Phase	021311	02060006	SWM Facility - Ch 5	0.23	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-3007	Future Phase	021311	02060006	SWM Facility - Ch 5	0.14	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-3008	Future Phase	021311	02060006	SWM Facility - Ch 5	0.24	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
PAX-3009	Future Phase	021311	02060006	SWM Facility - Ch 5	0.13	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-3011	Future Phase	021311	02060006	SWM Facility - Ch 5	0.13	Moderate	Clear	No Impact	High	Long Term	No Impacts	Minor	None	N/A	OH
PAX-3012	Future Phase	021311	02060006	SWM Facility - Ch 5	1.10	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
PAX-3014	Future Phase	021311	02060006	Pavement Removal	0.05	Minor	Clear	No Impact	Low	Long Term	No Impacts	Hard	None	N/A	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
PAX-3016	Future Phase	021311	02060006	SWM Facility - Ch 5	0.20	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
PAX-3017	Future Phase	021311	02060006	SWM Facility - Ch 3	0.60	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
PAX-3018	Future Phase	021311	02060006	SWM Facility - Ch 5	0.41	Minor	Significant	No Impact	Low	Long Term	Moderate	Minor	None	N/A	OH & UG
PAX-3021	Future Phase	021311	02060006	SWM Facility - Ch 3	0.91	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	UG
PAX-3024	Future Phase	021311	02060006	SWM Facility - Ch 5	0.33	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
PAX-3025	Future Phase	021311	02060006	SWM Facility - Ch 5	0.25	Moderate	Clear	Impact	High	Long Term	No Impacts	Minor	None	N/A	OH
PAX-3026	Future Phase	021311	02060006	SWM Facility - Ch 5	0.23	Moderate	Clear	Impact	High	Long Term	No Impacts	Minor	None	N/A	OH
PAX-3801	Future Phase	021311	02060006	SWM Facility - Ch 5	0.36	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
PAX-3802	Future Phase	021311	02060006	SWM Facility - Ch 5	0.17	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
PAX-4001	Future Phase	021311	02060006	SWM Facility - Ch 5	0.36	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
PAX-4003	Future Phase	021311	02060006	SWM Facility - Ch 5	0.34	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
PAX-4004	Future Phase	021311	02060006	SWM Facility - Ch 5	0.88	Minor	Clear	No Impact	Moderate	Long Term	No Impacts	Medium	None	N/A	OH
PAX-4006	Future Phase	021311	02060006	SWM Facility - Ch 3	0.23	Moderate	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	OH & UG
PAX-4007	Future Phase	021311	02070010	SWM Facility - Ch 3	0.73	Minor	Clear	No Impact	Moderate	Temp/Daily	Moderate	Hard	None	Minimal	OH & UG
WAS-0010	Future Phase	021402	02070010	SWM Facility - Ch 5	0.22	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-0012	Future Phase	021402	02070010	SWM Facility - Ch 5	0.45	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-0013	Future Phase	021402	02070010	SWM Facility - Ch 5	0.48	Significant	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-0070	Future Phase	021402	02070010	SWM Facility - Ch 5	0.27	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-0072	Future Phase	021402	02070010	SWM Facility - Ch 3	0.58	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-0073	Future Phase	021402	02070010	SWM Facility - Ch 5	0.18	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-0074	Future Phase	021402	02070010	SWM Facility - Ch 3	1.72	Significant	Clear	No Impact	Low	Temp/Daily	Minor	Hard	None	Moderate	UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-0075	Future Phase	021402	02070010	SWM Facility - Ch 5	0.36	Significant	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
WAS-0076	Future Phase	021402	02070010	SWM Facility - Ch 3	1.46	Moderate	Clear	No Impact	Low	Long Term	Moderate	Minor	None	N/A	OH & UG
WAS-0077	Future Phase	021402	02070010	SWM Facility - Ch 3	1.01	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-0078	Future Phase	021402	02070010	SWM Facility - Ch 5	0.36	Significant	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-0081	Future Phase	021402	02070010	SWM Facility - Ch 3	0.46	Significant	Clear	Impact	Low	Long Term	No Impacts	Minor	None	Minimal	OH
WAS-0082	Future Phase	021402	02070010	SWM Facility - Ch 3	0.38	Significant	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	Moderate	OH
WAS-0083	Future Phase	021402	02070010	SWM Facility - Ch 3	0.53	Significant	Clear	Impact	Low	Temp/Daily	Moderate	Hard	None	Moderate	OH & UG
WAS-0084	Future Phase	021402	02070010	SWM Facility - Ch 5	0.38	Moderate	Clear	Impact	Moderate	Temp/Daily	Minor	Minor	None	N/A	OH & UG
WAS-0085	Future Phase	021402	02070010	SWM Facility - Ch 3	0.84	Moderate	Clear	Impact	Moderate	Temp/Daily	Minor	Minor	None	N/A	OH & UG
WAS-0086	Future Phase	021402	02070010	SWM Facility - Ch 3	0.39	Significant	Clear	Impact	Low	Long Term	No Impacts	Minor	None	Minimal	None
WAS-0301	Future Phase	021402	02070010	SWM Facility - Ch 5	0.13	Moderate	Moderate	No Impact	Moderate	Temp/Daily	No Impacts	Hard	None	N/A	UG
WAS-0302	Future Phase	021402	02070010	SWM Facility - Ch 3	1.64	Moderate	Clear	Impact	Moderate	Temp/Daily	Minor	Minor	None	N/A	OH & UG
WAS-0303	Future Phase	021402	02070010	SWM Facility - Ch 5	0.22	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH
WAS-0304	Future Phase	021402	02070010	SWM Facility - Ch 3	0.77	Moderate	Clear	Impact	Low	Temp/Daily	Minor	Medium	None	N/A	OH & UG
WAS-0307	Future Phase	021402	02070010	SWM Facility - Ch 5	0.31	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH
WAS-0312	Future Phase	021402	02070010	SWM Facility - Ch 5	0.25	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0313	Future Phase	021402	02070010	SWM Facility - Ch 5	0.23	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-0315	Future Phase	021402	02070010	SWM Facility - Ch 5	0.07	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-0317	Future Phase	021402	02070010	SWM Facility - Ch 5	0.25	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-0318	Future Phase	021402	02070010	SWM Facility - Ch 5	0.14	Minor	Significant	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0319	Future Phase	021402	02070010	SWM Facility - Ch 5	0.24	Significant	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
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WAS-0320	Future Phase	021402	02070010	SWM Facility - Ch 5	0.57	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-0321	Future Phase	021402	02070010	SWM Facility - Ch 5	0.57	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0322	Future Phase	021402	02070010	SWM Facility - Ch 3	1.32	Moderate	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-0326	Future Phase	021402	02070010	SWM Facility - Ch 5	0.21	Significant	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	UG
WAS-0328	Future Phase	021402	02070010	SWM Facility - Ch 3	1.30	Significant	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-0333	Future Phase	021402	02070010	SWM Facility - Ch 5	0.36	Moderate	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
WAS-0334	Future Phase	021402	02070010	SWM Facility - Ch 5	0.34	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
WAS-0340	Future Phase	021402	02070010	SWM Facility - Ch 5	0.34	Minor	Clear	Impact	Moderate	Temp/Daily	Minor	Medium	None	N/A	UG
WAS-0342	Future Phase	021402	02070010	SWM Facility - Ch 5	0.83	Significant	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	None
WAS-0343	Future Phase	021402	02070010	SWM Facility - Ch 3	1.88	Moderate	Clear	No Impact	Low	Long Term	Minor	Minor	None	N/A	UG
WAS-0345	Future Phase	021402	02070010	SWM Facility - Ch 5	0.37	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-0346	Future Phase	021402	02070010	SWM Facility - Ch 3	1.07	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-0347	Future Phase	021402	02070010	SWM Facility - Ch 5	0.19	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-0348	Future Phase	021402	02070010	SWM Facility - Ch 5	0.15	Minor	Clear	Impact	Low	Temp/Daily	Moderate	Minor	None	N/A	OH & UG
WAS-0606	Future Phase	021402	02070010	SWM Facility - Ch 5	0.28	Moderate	Clear	Impact	Low	Temp/Daily	Moderate	Hard	None	N/A	OH & UG
WAS-0610	Future Phase	021402	02070010	SWM Facility - Ch 5	0.15	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0614	Future Phase	021402	02070010	SWM Facility - Ch 5	0.24	Minor	Clear	Impact	Moderate	Temp/Daily	No Impacts	Hard	None	N/A	None
WAS-0615	Future Phase	021402	02070010	SWM Facility - Ch 5	0.33	Significant	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-0616	Future Phase	021402	02070010	SWM Facility - Ch 5	0.19	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-0617	Future Phase	021402	02070010	SWM Facility - Ch 5	0.18	Significant	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-0623	Future Phase	021402	02070010	SWM Facility - Ch 3	0.51	Moderate	Clear	Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
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WAS-0624	Future Phase	021402	02070010	Pavement Removal	0.15	Moderate	Clear	No Impact	Moderate	Complex	No Impacts	Minor	None	N/A	None
WAS-0625	Future Phase	021402	02070010	SWM Facility - Ch 5	0.38	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0626	Future Phase	021402	02070010	SWM Facility - Ch 5	0.12	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-0627	Future Phase	021402	02070010	SWM Facility - Ch 5	0.11	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-0628	Future Phase	021402	02070010	SWM Facility - Ch 5	0.39	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0634	Future Phase	021402	02070010	Pavement Removal	0.04	Minor	Clear	Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-0638	Future Phase	021402	02070010	SWM Facility - Ch 3	0.86	Moderate	Clear	Impact	High	Long Term	Minor	Minor	None	N/A	OH & UG
WAS-0641	Future Phase	021402	02070010	SWM Facility - Ch 5	0.25	Moderate	Clear	Impact	Low	Long Term	Minor	Minor	None	N/A	None
WAS-0644	Future Phase	021402	02070010	SWM Facility - Ch 5	0.24	Moderate	Clear	Impact	Moderate	Temp/Daily	Moderate	Hard	None	N/A	OH & UG
WAS-0647	Future Phase	021402	02070010	SWM Facility - Ch 3	0.83	Significant	Clear	Impact	Moderate	Long Term	Moderate	Medium	None	Moderate	None
WAS-0649	Future Phase	021402	02070010	SWM Facility - Ch 3	0.63	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	Moderate	None
WAS-0650	Future Phase	021402	02070010	SWM Facility - Ch 3	1.29	Moderate	Clear	Impact	Low	Long Term	Minor	Minor	None	Moderate	OH & UG
WAS-0651	Future Phase	021402	02070010	SWM Facility - Ch 3	0.62	Significant	Clear	Impact	Low	Long Term	Moderate	Medium	None	Minimal	None
WAS-0652	Future Phase	021402	02070010	SWM Facility - Ch 3	0.71	Minor	Clear	No Impact	Moderate	Long Term	No Impacts	Hard	None	N/A	UG
WAS-0901	Future Phase	021402	02070010	SWM Facility - Ch 5	0.65	Moderate	Clear	No Impact	Moderate	Temp/Daily	Moderate	Minor	None	N/A	UG
WAS-0903	Future Phase	021402	02070010	SWM Facility - Ch 5	0.34	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0905	Future Phase	021402	02070010	SWM Facility - Ch 5	0.28	Minor	Clear	No Impact	Moderate	Temp/Daily	Minor	Minor	None	N/A	UG
WAS-0906	Future Phase	021402	02070010	SWM Facility - Ch 5	0.23	Minor	Clear	Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0911	Future Phase	021402	02070010	SWM Facility - Ch 5	0.22	Moderate	Clear	Impact	Low	Temp/Daily	Moderate	Minor	None	N/A	None
WAS-0913	Future Phase	021402	02070010	SWM Facility - Ch 5	0.21	Moderate	Clear	No Impact	Moderate	Long Term	Minor	Minor	None	N/A	None
WAS-0918	Future Phase	021402	02070010	SWM Facility - Ch 5	0.39	Minor	Clear	No Impact	Moderate	Temp/Daily	Moderate	Minor	None	N/A	UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-0922	Future Phase	021402	02070010	SWM Facility - Ch 5	0.32	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-0923	Future Phase	021402	02070010	SWM Facility - Ch 3	0.51	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-0925	Future Phase	021402	02070010	SWM Facility - Ch 5	0.23	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-0929	Future Phase	021402	02070010	SWM Facility - Ch 5	0.08	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0932	Future Phase	021402	02070010	SWM Facility - Ch 5	1.42	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0933	Future Phase	021402	02070010	SWM Facility - Ch 5	0.34	Minor	Clear	No Impact	Low	Temp/Daily	Minor	Minor	None	N/A	None
WAS-0934	Future Phase	021402	02070010	SWM Facility - Ch 5	0.24	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	None
WAS-0937	Future Phase	021402	02070010	SWM Facility - Ch 5	0.43	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0938	Future Phase	021402	02070011	SWM Facility - Ch 5	0.09	Minor	Significant	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-0939	Future Phase	021402	02070010	SWM Facility - Ch 5	0.16	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-0946	Future Phase	021402	02070010	SWM Facility - Ch 3	0.47	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0957	Future Phase	021402	02070010	SWM Facility - Ch 5	0.34	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0968	Future Phase	021402	02070010	SWM Facility - Ch 5	1.07	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-0969	Future Phase	021402	02070010	SWM Facility - Ch 5	0.27	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0971	Future Phase	021402	02070010	SWM Facility - Ch 5	0.93	Moderate	Clear	No Impact	Low	Long Term	Minor	Minor	None	N/A	OH
WAS-0972	Future Phase	021402	02070010	SWM Facility - Ch 5	0.27	Moderate	Clear	Impact	Low	Temp/Daily	Minor	Minor	None	N/A	OH & UG
WAS-0975	Future Phase	021402	02070010	SWM Facility - Ch 5	0.23	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-0979	Future Phase	021402	02070010	SWM Facility - Ch 5	0.26	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-0980	Future Phase	021402	02070010	SWM Facility - Ch 5	0.11	Minor	Significant	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-0984	Future Phase	021402	02070010	SWM Facility - Ch 5	0.76	Minor	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	UG
WAS-0985	Future Phase	021402	02070010	SWM Facility - Ch 5	0.53	Minor	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-0987	Future Phase	021402	02070010	SWM Facility - Ch 5	0.64	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
WAS-0988	Future Phase	021402	02070010	SWM Facility - Ch 5	0.33	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-0989	Future Phase	021402	02070010	SWM Facility - Ch 3	0.52	Moderate	Clear	No Impact	Low	Complex	No Impacts	Hard	None	Minimal	OH
WAS-0990	Future Phase	021402	02070010	SWM Facility - Ch 3	0.64	Moderate	Clear	No Impact	Low	Complex	No Impacts	Medium	None	Moderate	None
WAS-0992	Future Phase	021402	02070010	SWM Facility - Ch 5	0.36	Minor	Significant	No Impact	Moderate	Temp/Daily	Minor	Minor	None	N/A	OH & UG
WAS-0995	Future Phase	021402	02070010	SWM Facility - Ch 5	0.42	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-0996	Future Phase	021402	02070010	SWM Facility - Ch 5	0.14	Minor	Clear	Impact	Low	Long Term	Minor	Hard	None	N/A	OH
WAS-0999	Future Phase	021402	02070010	SWM Facility - Ch 5	0.11	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-1000	Future Phase	021402	02070010	SWM Facility - Ch 5	0.37	Minor	Clear	Impact	Moderate	No MOT	Minor	Minor	None	N/A	None
WAS-1001	Future Phase	021402	02070010	SWM Facility - Ch 3	2.54	Minor	Clear	Impact	Moderate	No MOT	Minor	Minor	None	N/A	UG
WAS-1002	Future Phase	021402	02070010	SWM Facility - Ch 3	1.59	Minor	Clear	No Impact	Moderate	No MOT	No Impacts	Minor	None	N/A	UG
WAS-1003	Future Phase	021402	02070010	SWM Facility - Ch 3	0.88	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	Moderate	OH & UG
WAS-1004	Future Phase	021402	02070010	SWM Facility - Ch 3	0.59	Significant	Clear	Impact	Moderate	Long Term	Moderate	Medium	None	Moderate	None
WAS-1005	Future Phase	021402	02070010	SWM Facility - Ch 3	1.24	Significant	Clear	Impact	Moderate	Long Term	Moderate	Minor	None	Moderate	None
WAS-1006	Future Phase	021402	02070010	SWM Facility - Ch 3	0.48	Significant	Clear	Impact	Low	Long Term	No Impacts	Hard	None	Moderate	None
WAS-1007	Future Phase	021402	02070010	SWM Facility - Ch 3	0.60	Significant	Clear	Impact	Low	Long Term	No Impacts	Hard	None	Moderate	None
WAS-1009	Future Phase	021402	02070010	SWM Facility - Ch 3	0.91	Moderate	Clear	Impact	Low	Temp/Daily	Moderate	Hard	None	Moderate	None
WAS-1010	Future Phase	021402	02070010	SWM Facility - Ch 3	0.34	Significant	Clear	Impact	Low	Long Term	No Impacts	Hard	None	Moderate	None
WAS-1011	Future Phase	021402	02070010	SWM Facility - Ch 3	0.59	Significant	Clear	No Impact	Low	Long Term	Moderate	Hard	None	Moderate	None
WAS-2003	Future Phase	021402	02070010	SWM Facility - Ch 5	0.46	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2004	Future Phase	021402	02070010	SWM Facility - Ch 5	0.29	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-2010	Future Phase	021402	02070010	SWM Facility - Ch 3	1.48	Minor	Clear	Impact	Moderate	Temp/Daily	Minor	Minor	None	N/A	None
WAS-2012	Future Phase	021402	02070010	SWM Facility - Ch 3	0.70	Minor	Minor	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-2016	Future Phase	021402	02070010	SWM Facility - Ch 5	0.66	Moderate	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-2018	Future Phase	021402	02070010	SWM Facility - Ch 5	0.49	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-2019	Future Phase	021402	02070010	SWM Facility - Ch 5	0.36	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-2022	Future Phase	021402	02070010	SWM Facility - Ch 5	0.12	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2023	Future Phase	021402	02070010	SWM Facility - Ch 5	0.28	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-2024	Future Phase	021402	02070010	SWM Facility - Ch 5	0.17	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2025	Future Phase	021402	02070010	SWM Facility - Ch 5	0.23	Significant	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-2026	Future Phase	021402	02070010	SWM Facility - Ch 5	0.29	Significant	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2027	Future Phase	021402	02070010	SWM Facility - Ch 5	0.28	Moderate	Clear	No Impact	High	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2028	Future Phase	021402	02070010	SWM Facility - Ch 5	0.35	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-2029	Future Phase	021402	02070010	SWM Facility - Ch 5	0.29	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Medium	None	N/A	UG
WAS-2030	Future Phase	021402	02070010	SWM Facility - Ch 5	0.31	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Medium	None	N/A	UG
WAS-2032	Future Phase	021402	02070010	SWM Facility - Ch 5	0.24	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2033	Future Phase	021402	02070010	SWM Facility - Ch 5	0.63	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2034	Future Phase	021402	02070010	SWM Facility - Ch 5	0.63	Moderate	Clear	Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-2035	Future Phase	021402	02070010	SWM Facility - Ch 5	0.12	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-2036	Future Phase	021402	02070010	SWM Facility - Ch 5	0.17	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2037	Future Phase	021402	02070010	SWM Facility - Ch 5	0.26	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2038	Future Phase	021402	02070010	SWM Facility - Ch 5	0.61	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	None

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-2039	Future Phase	021402	02070010	SWM Facility - Ch 5	0.96	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-2040	Future Phase	021402	02070010	SWM Facility - Ch 5	0.34	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-2041	Future Phase	021402	02070010	SWM Facility - Ch 5	0.23	Minor	Minor	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-2042	Future Phase	021402	02070010	SWM Facility - Ch 5	0.35	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-2043	Future Phase	021402	02070010	SWM Facility - Ch 5	0.50	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-2044	Future Phase	021402	02070010	SWM Facility - Ch 5	0.28	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-2048	Future Phase	021402	02070010	SWM Facility - Ch 5	1.13	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-2050	Future Phase	021402	02070010	SWM Facility - Ch 3	1.15	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2051	Future Phase	021402	02070010	SWM Facility - Ch 5	0.93	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-2056	Future Phase	021402	02070010	SWM Facility - Ch 5	0.49	Significant	Minor	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2057	Future Phase	021402	02070010	SWM Facility - Ch 5	0.45	Minor	Clear	No Impact	Low	Complex	No Impacts	Medium	None	N/A	OH & UG
WAS-2059	Future Phase	021402	02070010	SWM Facility - Ch 3	0.55	Moderate	Clear	No Impact	High	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
WAS-2062	Future Phase	021402	02070010	SWM Facility - Ch 3	0.42	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	UG
WAS-2063	Future Phase	021402	02070010	SWM Facility - Ch 3	0.45	Significant	Moderate	No Impact	High	Temp/Daily	No Impacts	Medium	None	Major	OH & UG
WAS-2064	Future Phase	021402	02070010	SWM Facility - Ch 3	0.88	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-2066	Future Phase	021402	02070010	SWM Facility - Ch 5	0.67	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2067	Future Phase	021402	02070010	SWM Facility - Ch 5	0.27	Significant	Moderate	No Impact	High	Temp/Daily	No Impacts	Hard	None	N/A	OH
WAS-2068	Future Phase	021402	02070010	SWM Facility - Ch 5	0.18	Significant	Moderate	No Impact	High	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-2069	Future Phase	021402	02070010	SWM Facility - Ch 5	0.17	Significant	Moderate	No Impact	High	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-2070	Future Phase	021402	02070010	SWM Facility - Ch 5	0.22	Significant	Moderate	No Impact	High	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-2071	Future Phase	021402	02070010	SWM Facility - Ch 5	0.09	Significant	Moderate	No Impact	High	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-2072	Future Phase	021402	02070010	SWM Facility - Ch 3	1.08	Significant	Minor	No Impact	High	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
WAS-2073	Future Phase	021402	02070010	SWM Facility - Ch 3	0.48	Moderate	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-2074	Future Phase	021402	02070010	SWM Facility - Ch 3	0.80	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Hard	None	Moderate	OH & UG
WAS-2075	Future Phase	021402	02070010	SWM Facility - Ch 5	0.34	Minor	Clear	Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2076	Future Phase	021402	02070010	SWM Facility - Ch 5	0.45	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
WAS-2078	Future Phase	021402	02070010	SWM Facility - Ch 3	1.51	Significant	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-2079	Future Phase	021402	02070010	SWM Facility - Ch 3	1.10	Moderate	Clear	Impact	High	Long Term	No Impacts	Minor	None	N/A	UG
WAS-2501	Future Phase	021402	02070010	SWM Facility - Ch 5	0.48	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-2502	Future Phase	021402	02070010	SWM Facility - Ch 3	0.96	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	Not Feasible
WAS-2503	Future Phase	021402	02070010	SWM Facility - Ch 5	0.17	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
WAS-2504	Future Phase	021402	02070010	SWM Facility - Ch 5	0.41	Minor	Clear	No Impact	Low	Long Term	No Impacts	Medium	None	N/A	None
WAS-2505	Future Phase	021402	02070010	SWM Facility - Ch 5	0.30	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2506	Future Phase	021402	02070010	SWM Facility - Ch 5	0.29	Minor	Clear	No Impact	Moderate	Complex	No Impacts	Medium	None	N/A	OH
WAS-2507	Future Phase	021402	02070010	SWM Facility - Ch 5	0.26	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2508	Future Phase	021402	02070010	SWM Facility - Ch 5	0.19	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2509	Future Phase	021402	02070010	SWM Facility - Ch 5	0.17	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2510	Future Phase	021402	02070010	SWM Facility - Ch 5	0.39	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2511	Future Phase	021402	02070010	SWM Facility - Ch 5	0.20	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2512	Future Phase	021402	02070010	SWM Facility - Ch 5	0.35	Significant	Minor	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2513	Future Phase	021402	02070010	SWM Facility - Ch 3	0.29	Significant	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH
WAS-2514	Future Phase	021402	02070010	SWM Facility - Ch 5	0.39	Minor	Clear	No Impact	Low	Temp/Daily	Minor	Hard	None	N/A	None

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-2515	Future Phase	021402	02070010	SWM Facility - Ch 5	0.52	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	None
WAS-2518	Future Phase	021402	02070010	SWM Facility - Ch 5	0.50	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	None
WAS-2519	Future Phase	021402	02070010	SWM Facility - Ch 5	0.39	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	None
WAS-2520	Future Phase	021402	02070010	SWM Facility - Ch 5	0.63	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	None
WAS-2522	Future Phase	021402	02070010	SWM Facility - Ch 5	0.77	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2525	Future Phase	021402	02070010	SWM Facility - Ch 5	0.49	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-2526	Future Phase	021402	02070010	SWM Facility - Ch 3	0.31	Significant	Clear	No Impact	Moderate	Temp/Daily	Minor	Minor	None	Moderate	OH
WAS-2527	Future Phase	021402	02070010	SWM Facility - Ch 5	0.36	Minor	Clear	No Impact	Moderate	Complex	No Impacts	Minor	None	N/A	OH
WAS-2528	Future Phase	021402	02070010	SWM Facility - Ch 5	0.21	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-2529	Future Phase	021402	02070010	SWM Facility - Ch 3	0.39	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2530	Future Phase	021402	02070010	SWM Facility - Ch 5	0.23	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2531	Future Phase	021402	02070010	SWM Facility - Ch 5	0.20	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2532	Future Phase	021402	02070010	SWM Facility - Ch 5	0.18	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2533	Future Phase	021402	02070010	SWM Facility - Ch 5	0.17	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
WAS-2534	Future Phase	021402	02070010	SWM Facility - Ch 5	0.13	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2535	Future Phase	021402	02070010	SWM Facility - Ch 5	0.10	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2536	Future Phase	021402	02070010	SWM Facility - Ch 5	0.26	Minor	Clear	No Impact	Low	Long Term	No Impacts	Medium	None	N/A	OH & UG
WAS-2537	Future Phase	021402	02070010	SWM Facility - Ch 5	0.25	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-2538	Future Phase	021402	02070010	SWM Facility - Ch 5	0.22	Moderate	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-2539	Future Phase	021402	02070010	SWM Facility - Ch 5	0.30	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-2540	Future Phase	021402	02070010	SWM Facility - Ch 5	0.41	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-2541	Future Phase	021402	02070010	SWM Facility - Ch 5	0.68	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-2542	Future Phase	021402	02070010	SWM Facility - Ch 5	0.58	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-2543	Future Phase	021402	02070010	SWM Facility - Ch 5	0.50	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-2548	Future Phase	021402	02070010	SWM Facility - Ch 5	0.57	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	None
WAS-2549	Future Phase	021402	02070010	SWM Facility - Ch 5	0.25	Minor	Clear	No Impact	Moderate	Long Term	No Impacts	Medium	None	N/A	None
WAS-2551	Future Phase	021402	02070010	SWM Facility - Ch 5	0.11	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-2553	Future Phase	021402	02070010	SWM Facility - Ch 5	0.19	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-2554	Future Phase	021402	02070010	SWM Facility - Ch 3	0.92	Minor	Clear	Impact	Low	Temp/Daily	Moderate	Minor	None	N/A	None
WAS-2555	Future Phase	021402	02070010	SWM Facility - Ch 5	0.13	Minor	Clear	Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-2556	Future Phase	021402	02070010	SWM Facility - Ch 5	0.27	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-2557	Future Phase	021402	02070010	SWM Facility - Ch 5	0.12	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-2558	Future Phase	021402	02070010	SWM Facility - Ch 5	0.18	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-2559	Future Phase	021402	02070010	SWM Facility - Ch 5	0.27	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2560	Future Phase	021402	02070010	SWM Facility - Ch 5	0.16	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2562	Future Phase	021402	02070010	SWM Facility - Ch 5	0.37	Significant	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
WAS-2564	Future Phase	021402	02070010	SWM Facility - Ch 5	0.17	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2565	Future Phase	021402	02070010	SWM Facility - Ch 5	0.28	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-2567	Future Phase	021402	02070010	SWM Facility - Ch 5	0.33	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2568	Future Phase	021402	02070010	SWM Facility - Ch 5	0.20	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2569	Future Phase	021402	02070010	SWM Facility - Ch 5	0.32	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-2571	Future Phase	021402	02070010	SWM Facility - Ch 5	0.34	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-2572	Future Phase	021402	02070010	SWM Facility - Ch 5	0.22	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2573	Future Phase	021402	02070010	SWM Facility - Ch 5	0.20	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2574	Future Phase	021402	02070010	SWM Facility - Ch 5	0.22	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2575	Future Phase	021402	02070010	SWM Facility - Ch 5	0.24	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2576	Future Phase	021402	02070010	SWM Facility - Ch 5	0.14	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2577	Future Phase	021402	02070010	SWM Facility - Ch 5	0.12	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2578	Future Phase	021402	02070010	SWM Facility - Ch 5	0.12	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2579	Future Phase	021402	02070010	SWM Facility - Ch 5	0.17	Minor	Clear	No Impact	Low	Temp/Daily	Moderate	Minor	None	N/A	OH & UG
WAS-2580	Future Phase	021402	02070010	SWM Facility - Ch 5	0.20	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2581	Future Phase	021402	02070010	SWM Facility - Ch 5	0.13	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2582	Future Phase	021402	02070010	SWM Facility - Ch 5	0.14	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2583	Future Phase	021402	02070010	SWM Facility - Ch 5	0.12	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2584	Future Phase	021402	02070010	SWM Facility - Ch 5	0.17	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2585	Future Phase	021402	02070010	SWM Facility - Ch 5	0.12	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2586	Future Phase	021402	02070010	SWM Facility - Ch 5	0.17	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2587	Future Phase	021402	02070010	SWM Facility - Ch 5	0.15	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2588	Future Phase	021402	02070010	SWM Facility - Ch 5	0.14	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2589	Future Phase	021402	02070010	SWM Facility - Ch 5	0.12	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2590	Future Phase	021402	02070010	SWM Facility - Ch 5	0.14	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2591	Future Phase	021402	02070010	SWM Facility - Ch 5	0.15	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2592	Future Phase	021402	02070010	SWM Facility - Ch 5	0.11	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-2593	Future Phase	021402	02070010	SWM Facility - Ch 5	0.10	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2594	Future Phase	021402	02070010	SWM Facility - Ch 5	0.15	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2595	Future Phase	021402	02070010	SWM Facility - Ch 5	0.12	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2596	Future Phase	021402	02070010	SWM Facility - Ch 3	0.46	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-2599	Future Phase	021402	02070010	SWM Facility - Ch 5	0.71	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2600	Future Phase	021402	02070010	SWM Facility - Ch 5	0.24	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2601	Future Phase	021402	02070010	SWM Facility - Ch 5	0.24	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2602	Future Phase	021402	02070010	SWM Facility - Ch 5	0.52	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-2603	Future Phase	021402	02070010	SWM Facility - Ch 5	0.29	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	UG
WAS-2604	Future Phase	021402	02070010	SWM Facility - Ch 3	0.36	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-2605	Future Phase	021402	02070010	SWM Facility - Ch 5	0.24	Moderate	Clear	Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2606	Future Phase	021402	02070010	SWM Facility - Ch 5	0.21	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-2608	Future Phase	021402	02070010	SWM Facility - Ch 5	0.71	Significant	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-2609	Future Phase	021402	02070010	SWM Facility - Ch 5	0.73	Significant	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-2610	Future Phase	021402	02070010	SWM Facility - Ch 3	0.93	Significant	Clear	Impact	Low	Long Term	No Impacts	Minor	None	Moderate	None
WAS-2611	Future Phase	021402	02070010	SWM Facility - Ch 5	0.65	Significant	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-2612	Future Phase	021402	02070010	SWM Facility - Ch 5	0.24	Minor	Clear	Impact	Moderate	Temp/Daily	Moderate	Minor	None	N/A	None
WAS-2613	Future Phase	021402	02070010	SWM Facility - Ch 3	0.36	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	OH
WAS-2614	Future Phase	021402	02070010	SWM Facility - Ch 3	0.88	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	None
WAS-2615	Future Phase	021402	02070010	SWM Facility - Ch 5	0.27	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-3301	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.13	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-3302	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.06	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-3303	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.15	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-3305	Future Phase	021402	02070010	SWM Facility - Ch 5	0.21	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-3306	Future Phase	021402	02070010	SWM Facility - Ch 5	0.38	Significant	Clear	Impact	Low	Temp/Daily	Significant	Medium	None	N/A	OH
WAS-3307	Future Phase	021402	02070010	SWM Facility - Ch 5	0.35	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	UG
WAS-3308	Future Phase	021402	02070010	SWM Facility - Ch 5	0.21	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-3601	Future Phase	021402	02070010	SWM Facility - Ch 5	0.51	Moderate	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-3602	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.43	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-3603	Future Phase	021402	02070010	SWM Facility - Ch 5	0.26	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-3604	Future Phase	021402	02070010	SWM Facility - Ch 5	0.46	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-3606	Future Phase	021402	02070010	SWM Facility - Ch 5	0.37	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-3607	Future Phase	021402	02070010	SWM Facility - Ch 5	0.32	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-3608	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.75	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
WAS-3609	Future Phase	021402	02070010	SWM Facility - Ch 5	0.14	Significant	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-3611	Future Phase	021402	02070010	SWM Facility - Ch 5	0.32	Moderate	Clear	No Impact	High	Long Term	No Impacts	Minor	None	N/A	OH
WAS-3612	Future Phase	021402	02070010	SWM Facility - Ch 3	0.74	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-3613	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.26	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-3614	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.14	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-3615	Future Phase	021402	02070010	SWM Facility - Ch 5	0.17	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-3616	Future Phase	021402	02070010	SWM Facility - Ch 5	0.20	Minor	Clear	Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	UG
WAS-3617	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.56	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-3618	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.28	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-3619	Future Phase	021402	02070010	SWM Facility - Ch 5	0.34	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-3621	Future Phase	021402	02070010	SWM Facility - Ch 5	0.25	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-3622	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.67	Moderate	Clear	No Impact	Low	Long Term	Moderate	Minor	None	N/A	OH & UG
WAS-3623	Phase 1 South	021402	02070008	Pavement Removal	0.06	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	UG
WAS-3625	Future Phase	021402	02070010	SWM Facility - Ch 5	0.19	Minor	Moderate	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-3626	Future Phase	021402	02070010	SWM Facility - Ch 3	0.52	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	OH
WAS-3628	Future Phase	021402	02070010	SWM Facility - Ch 3	0.78	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	None
WAS-3629	Future Phase	021402	02070010	SWM Facility - Ch 3	0.56	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH
WAS-3631	Future Phase	021402	02070010	SWM Facility - Ch 3	1.41	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	OH
WAS-3632	Future Phase	021402	02070010	SWM Facility - Ch 3	0.26	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	None
WAS-3633	Future Phase	021402	02070010	SWM Facility - Ch 3	0.16	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	None
WAS-3634	Future Phase	021402	02070010	SWM Facility - Ch 3	0.48	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	None
WAS-3635	Future Phase	021402	02070010	SWM Facility - Ch 3	0.31	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	None
WAS-3636	Future Phase	021402	02070010	SWM Facility - Ch 3	0.14	Significant	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	Moderate	None
WAS-3637	Future Phase	021402	02070010	SWM Facility - Ch 3	0.15	Moderate	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	Moderate	None
WAS-3638	Future Phase	021402	02070010	SWM Facility - Ch 3	0.17	Significant	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	None
WAS-3639	Future Phase	021402	02070010	SWM Facility - Ch 3	0.38	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	UG
WAS-3640	Future Phase	021402	02070010	SWM Facility - Ch 3	0.22	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	UG
WAS-3641	Future Phase	021402	02070010	SWM Facility - Ch 3	0.22	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	OH
WAS-3644	Future Phase	021402	02070010	SWM Facility - Ch 3	0.36	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	OH

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-3645	Future Phase	021402	02070010	SWM Facility - Ch 3	0.37	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	OH & UG
WAS-3646	Future Phase	021402	02070010	SWM Facility - Ch 3	0.44	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH
WAS-3647	Future Phase	021402	02070010	SWM Facility - Ch 3	0.68	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	None
WAS-3648	Future Phase	021402	02070010	SWM Facility - Ch 3	0.56	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	None
WAS-3649	Future Phase	021402	02070010	SWM Facility - Ch 3	0.30	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH
WAS-3650	Future Phase	021402	02070010	SWM Facility - Ch 3	0.21	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	None
WAS-3652	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.28	Significant	Clear	No Impact	High	Temp/Daily	No Impacts	Medium	None	Moderate	UG
WAS-3653	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.25	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Minimal	None
WAS-3655	Future Phase	021402	02070010	SWM Facility - Ch 3	1.32	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-3656	Future Phase	021402	02070010	SWM Facility - Ch 3	0.69	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Medium	None	Moderate	None
WAS-3657	Future Phase	021402	02070010	SWM Facility - Ch 3	0.35	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	OH
WAS-3658	Future Phase	021402	02070010	SWM Facility - Ch 5	0.59	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-3994	Future Phase	021402	02070010	SWM Facility - Ch 5	0.44	Minor	Clear	Impact	Low	Temp/Daily	Minor	Hard	None	N/A	OH & UG
WAS-3995	Future Phase	021402	02070010	SWM Facility - Ch 5	0.12	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-3996	Future Phase	021402	02070010	SWM Facility - Ch 5	0.21	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-3997	Future Phase	021402	02070010	SWM Facility - Ch 5	0.32	Minor	Clear	Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	UG
WAS-3999	Future Phase	021402	02070010	SWM Facility - Ch 5	0.35	Moderate	Clear	No Impact	High	Temp/Daily	Minor	Hard	None	N/A	OH & UG
WAS-4000	Future Phase	021402	02070010	SWM Facility - Ch 5	0.18	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-4002	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.79	Moderate	Minor	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4006	Phase 1 South	021402	02070008	Pavement Removal	0.38	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	UG
WAS-4010	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.33	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-4011	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.64	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4013	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.18	Moderate	Minor	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-4014	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.18	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
WAS-4015	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.27	Significant	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	Moderate	OH & UG
WAS-4016	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.19	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4017	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.29	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4018	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.59	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH
WAS-4019	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4020	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.17	Minor	Moderate	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH
WAS-4021	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.13	Minor	Moderate	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	None
WAS-4022	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.12	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH
WAS-4023	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.13	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	None
WAS-4024	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Moderate	Moderate	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH
WAS-4025	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.33	Moderate	Minor	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-4026	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.19	Moderate	Minor	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4027	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.18	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	UG
WAS-4029	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.17	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4030	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.25	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	UG
WAS-4031	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.44	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	Minimal	UG
WAS-4032	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.23	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4037	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.36	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Hard	None	Moderate	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-4038	Phase 1 South	021402	02070008	SWM Facility - Ch 3	1.23	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
WAS-4040	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.44	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4045	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.72	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	Major	OH & UG
WAS-4047	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.77	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	Moderate	OH & UG
WAS-4048	Phase 1 South	021402	02070008	SWM Facility - Ch 5	1.04	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4050	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.23	Moderate	Clear	No Impact	Moderate	Temp/Daily	Minor	Hard	None	Moderate	OH & UG
WAS-4052	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.38	Significant	Significant	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	OH
WAS-4053	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.44	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	OH
WAS-4058	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.29	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-4059	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.79	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	UG
WAS-4060	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.64	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-4061	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.44	Moderate	Clear	Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-4063	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.40	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4064	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.30	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-4065	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.73	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4067	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.94	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	Moderate	UG
WAS-4068	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.39	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-4072	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.71	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	OH & UG
WAS-4075	Phase 1 South	021402	02070008	SWM Facility - Ch 3	2.78	Minor	Clear	Impact	High	Temp/Daily	Minor	Medium	None	Moderate	OH & UG
WAS-4078	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.57	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-4079	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.74	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	Major	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-4083	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.60	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4084	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.38	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
WAS-4086	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.36	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Minimal	None
WAS-4087	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.46	Moderate	Minor	Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4091	Phase 1 South	021402	02070008	SWM Facility - Ch 5	1.79	Moderate	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-4093	Future Phase	021402	02070010	SWM Facility - Ch 3	0.54	Significant	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4096	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.48	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-4098	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.57	Moderate	Clear	No Impact	High	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
WAS-4099	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.16	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-4100	Future Phase	021402	02070010	SWM Facility - Ch 5	0.41	Minor	Clear	No Impact	Moderate	Temp/Daily	Minor	Minor	None	N/A	OH & UG
WAS-4101	Future Phase	021402	02070010	SWM Facility - Ch 5	1.43	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4111	Future Phase	021402	02070010	SWM Facility - Ch 5	0.79	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4112	Future Phase	021402	02070010	SWM Facility - Ch 5	0.69	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4119	Future Phase	021402	02060006	SWM Facility - Ch 3	0.57	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
WAS-4121	Future Phase	021402	02070010	SWM Facility - Ch 5	0.46	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-4122	Future Phase	021402	02070010	SWM Facility - Ch 5	0.79	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-4123	Future Phase	021402	02070010	SWM Facility - Ch 5	1.26	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-4124	Future Phase	021402	02070010	SWM Facility - Ch 5	1.17	Minor	Clear	Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-4125	Future Phase	021402	02070010	SWM Facility - Ch 5	0.44	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
WAS-4127	Future Phase	021402	02070010	SWM Facility - Ch 5	0.65	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
WAS-4131	Future Phase	021402	02070010	SWM Facility - Ch 3	0.36	Significant	Significant	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-4132	Future Phase	021402	02070010	SWM Facility - Ch 3	0.25	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	Moderate	OH & UG
WAS-4134	Future Phase	021402	02070010	SWM Facility - Ch 5	0.76	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-4135	Future Phase	021402	02070010	SWM Facility - Ch 5	0.31	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-4137	Future Phase	021402	02070010	SWM Facility - Ch 5	0.35	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-4138	Future Phase	021402	02070010	SWM Facility - Ch 5	0.57	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-4140	Future Phase	021402	02070010	SWM Facility - Ch 5	0.77	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-4141	Future Phase	021402	02070010	SWM Facility - Ch 3	0.23	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH
WAS-4150	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.34	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Hard	None	N/A	OH
WAS-4153	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.23	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-4154	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Minor	Clear	No Impact	Low	Temp/Daily	Moderate	Medium	None	N/A	OH
WAS-4155	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	None
WAS-4156	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.21	Significant	Moderate	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	Moderate	None
WAS-4157	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.19	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	UG
WAS-4158	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.27	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	UG
WAS-4159	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.14	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	UG
WAS-4160	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.40	Significant	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	UG
WAS-4161	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.26	Significant	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	UG
WAS-4162	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.34	Significant	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	UG
WAS-4163	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.11	Significant	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4164	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.43	Moderate	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4165	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.53	Significant	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-4200	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.11	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4201	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.10	Moderate	Moderate	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4202	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Minor	Moderate	No Impact	Low	Temp/Daily	Minor	Medium	None	N/A	OH
WAS-4203	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.14	Minor	Moderate	Impact	Low	Temp/Daily	Minor	Hard	None	Moderate	OH
WAS-4204	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.31	Minor	Moderate	Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH
WAS-4205	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.17	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4206	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.26	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4208	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.14	Minor	Moderate	Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4212	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.14	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4214	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4215	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.21	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4216	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.14	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4218	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.11	Minor	Clear	No Impact	low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4304	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.30	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-4310	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.16	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
WAS-4321	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.28	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4322	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.10	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4323	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.17	Moderate	Clear	No Impact	Moderate	No MOT	No Impacts	Minor	None	Moderate	OH
WAS-4324	Phase 1 South	021402	02070008	SWM Facility - Ch 3	1.25	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4325	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.30	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4331	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.11	Minor	Clear	Impact	Low	Temp/Daily	Minor	Medium	None	N/A	OH

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-4333	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.13	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4334	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.14	Moderate	Clear	Impact	Low	Temp/Daily	Minor	Minor	None	Moderate	OH & UG
WAS-4335	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.15	Moderate	Clear	Impact	Moderate	Temp/Daily	Minor	Medium	None	N/A	None
WAS-4336	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.15	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4337	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Minor	Clear	No Impact	Low	Temp/Daily	Minor	Medium	None	N/A	OH & UG
WAS-4338	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Minor	Clear	No Impact	Low	Temp/Daily	Minor	Medium	None	N/A	OH & UG
WAS-4339	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.37	Significant	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4342	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4345	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.16	Moderate	Clear	Impact	Low	Temp/Daily	Moderate	Minor	None	N/A	OH
WAS-4347	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.19	Significant	Significant	No Impact	Low	Temp/Daily	Moderate	Medium	None	N/A	OH
WAS-4349	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.12	Moderate	Significant	No Impact	Low	Temp/Daily	Minor	Medium	None	N/A	OH
WAS-4352	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.13	Minor	Significant	Impact	Low	Temp/Daily	Moderate	Medium	None	N/A	OH
WAS-4353	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.38	Moderate	Significant	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-4354	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.37	Moderate	Significant	No Impact	Low	Temp/Daily	Minor	Medium	None	N/A	OH
WAS-4355	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.10	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Minimal	None
WAS-4356	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.44	Moderate	Significant	No Impact	Low	Temp/Daily	Minor	Medium	None	N/A	OH
WAS-4361	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.14	Moderate	Significant	No Impact	Low	Temp/Daily	Minor	Medium	None	N/A	OH
WAS-4362	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.13	Moderate	Significant	No Impact	Low	Long Term	Moderate	Minor	None	Moderate	None
WAS-4363	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Moderate	Significant	No Impact	Low	Long Term	Minor	Minor	None	N/A	None
WAS-4364	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.21	Moderate	Significant	No Impact	Low	Temp/Daily	Moderate	Medium	None	N/A	OH
WAS-4366	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.29	Significant	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-4370	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.33	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Hard	None	Moderate	None
WAS-4371	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.30	Moderate	Clear	Impact	Low	Temp/Daily	Minor	Hard	None	Moderate	None
WAS-4373	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.11	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4375	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.11	Moderate	Clear	Impact	Low	Long Term	No Impacts	Medium	None	N/A	OH
WAS-4376	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.34	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4377	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.15	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4378	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.12	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4382	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.30	Moderate	Clear	Impact	Low	Long Term	Minor	Medium	None	Moderate	OH
WAS-4383	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.57	Moderate	Clear	Impact	Low	Long Term	Minor	Medium	None	Moderate	OH
WAS-4385	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.39	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH
WAS-4386	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.13	Moderate	Clear	No Impact	Low	Temp/Daily	Minor	Medium	None	Moderate	OH
WAS-4391	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.16	Minor	Clear	No Impact	Low	Temp/Daily	Moderate	Medium	None	N/A	None
WAS-4392	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.21	Minor	Clear	Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4393	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.40	Moderate	Minor	No Impact	Low	Long Term	No Impacts	Medium	None	Moderate	OH
WAS-4394	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.15	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
WAS-4397	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.23	Minor	Minor	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4402	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.28	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4404	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.53	Moderate	Significant	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	None
WAS-4405	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.19	Minor	Significant	No Impact	Low	Long Term	No Impacts	Medium	None	N/A	None
WAS-4406	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.43	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4407	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.26	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-4411	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.12	Moderate	Significant	Impact	Low	Temp/Daily	No Impacts	Hard	None	Moderate	OH
WAS-4412	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.11	Moderate	Significant	No Impact	Low	Temp/Daily	Minor	Hard	None	N/A	None
WAS-4413	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.11	Moderate	Moderate	No Impact	Low	Temp/Daily	No Impacts	Hard	None	Moderate	OH
WAS-4414	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.21	Moderate	Moderate	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	None
WAS-4415	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.40	Moderate	Clear	No Impact	Low	Temp/Daily	Minor	Medium	None	N/A	None
WAS-4423	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.11	Moderate	Clear	Impact	Low	Long Term	Moderate	Medium	None	Moderate	OH
WAS-4424	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.28	Moderate	Clear	Impact	Low	Temp/Daily	Minor	Medium	None	N/A	OH & UG
WAS-4425	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.34	Moderate	Clear	Impact	Low	Long Term	Minor	Medium	None	Moderate	OH
WAS-4426	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.17	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4427	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.24	Moderate	Clear	Impact	Low	Long Term	Moderate	Medium	None	Moderate	OH
WAS-4428	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.16	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4429	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.49	Moderate	Minor	No Impact	Low	Long Term	Moderate	Hard	None	Moderate	OH
WAS-4431	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.41	Moderate	Clear	No Impact	Low	Temp/Daily	Moderate	Hard	None	N/A	OH
WAS-4432	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.32	Significant	Clear	No Impact	Low	Temp/Daily	Moderate	Medium	None	N/A	OH
WAS-4433	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.39	Moderate	Clear	No Impact	Low	Long Term	Minor	Hard	None	Moderate	OH
WAS-4441	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.11	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4442	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.25	Moderate	Clear	No Impact	Low	Temp/Daily	Moderate	Medium	None	N/A	OH
WAS-4443	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.26	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
WAS-4444	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.23	Moderate	Clear	No Impact	Low	Temp/Daily	Moderate	Hard	None	N/A	OH & UG
WAS-4445	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.13	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4446	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.19	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-4447	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.20	Moderate	Moderate	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4448	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.19	Moderate	Moderate	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	Moderate	UG
WAS-4449	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.29	Moderate	Moderate	No Impact	Moderate	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-4450	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.10	Significant	Clear	No Impact	High	Temp/Daily	Minor	Minor	None	Minimal	None
WAS-4451	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.15	Moderate	Moderate	No Impact	High	Temp/Daily	No Impacts	Minor	None	Moderate	OH
WAS-4452	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.13	Significant	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4453	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.21	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4454	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.20	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH
WAS-4455	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.13	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4456	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.29	Significant	Clear	No Impact	High	Temp/Daily	Moderate	Hard	None	Minimal	UG
WAS-4457	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.28	Significant	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	Moderate	UG
WAS-4459	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.19	Moderate	Significant	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-4462	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.22	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH
WAS-4463	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.22	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4464	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.11	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	Moderate	OH & UG
WAS-4474	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.25	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4475	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.29	Significant	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Hard	None	Major	OH
WAS-4476	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.30	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4477	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.10	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Minor	None	Moderate	OH
WAS-4478	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.41	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH
WAS-4479	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.11	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Major	OH

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-4481	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.42	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4482	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.35	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	OH
WAS-4483	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.13	Moderate	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	Minimal	None
WAS-4484	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.73	Moderate	Clear	No Impact	Moderate	Temp/Daily	Minor	Minor	None	Moderate	UG
WAS-4486	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.37	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	UG
WAS-4487	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.29	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	UG
WAS-4488	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.18	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	UG
WAS-4489	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.21	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-4491	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.56	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	None
WAS-4493	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.45	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	UG
WAS-4494	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.38	Significant	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	Minimal	None
WAS-4495	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.16	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4497	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.22	Significant	Clear	Impact	Low	Long Term	No Impacts	Minor	None	Moderate	UG
WAS-4498	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.23	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	Moderate	UG
WAS-4499	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.19	Significant	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	UG
WAS-4502	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.45	Significant	Clear	Impact	Low	Long Term	No Impacts	Minor	None	Moderate	None
WAS-4506	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.21	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	Minimal	None
WAS-4509	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.83	Moderate	Clear	Impact	Low	Long Term	Moderate	Hard	None	Moderate	None
WAS-4513	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.31	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	UG
WAS-4516	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.59	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	None
WAS-4517	Future Phase	021402	02070010	SWM Facility - Ch 3	0.41	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	None

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-4518	Future Phase	021402	02070010	SWM Facility - Ch 3	0.61	Moderate	Clear	Impact	Low	Long Term	No Impacts	Minor	None	Moderate	None
WAS-4519	Future Phase	021402	02070010	SWM Facility - Ch 3	0.70	Moderate	Clear	Impact	Low	Long Term	No Impacts	Minor	None	Moderate	None
WAS-4521	Future Phase	021402	02070010	SWM Facility - Ch 3	0.98	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	Minimal	None
WAS-4523	Future Phase	021402	02070010	SWM Facility - Ch 3	0.38	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	Minimal	None
WAS-4532	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.31	Moderate	Clear	No Impact	High	Temp/Daily	No Impacts	Medium	None	Moderate	OH
WAS-4533	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.78	Moderate	Clear	No Impact	High	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
WAS-4534	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.25	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
WAS-4601	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.19	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Hard	None	N/A	None
WAS-4602	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.11	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	None
WAS-4603	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.53	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4604	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.20	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4606	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.35	Moderate	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4607	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4609	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.14	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4610	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.43	Moderate	Clear	No Impact	Low	Temp/Daily	Minor	Hard	None	N/A	OH
WAS-4613	Phase 1 South	021402	02070008	SWM Facility - Ch 3	4.24	Significant	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Minimal	OH & UG
WAS-4614	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.12	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4615	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.11	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-4619	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.11	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH
WAS-4622	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.14	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4623	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.11	Moderate	Minor	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-4624	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Moderate	Minor	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-4625	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.13	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-4626	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.35	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-4627	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.19	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-4628	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.18	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	None
WAS-4629	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.16	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	None
WAS-4630	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.17	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4631	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.17	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-4632	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.22	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4633	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.51	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-4635	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.17	Moderate	Clear	No Impact	High	Temp/Daily	No Impacts	Minor	None	N/A	None
WAS-4636	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.27	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	OH
WAS-4637	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.15	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	UG
WAS-4638	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.27	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	None
WAS-4639	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.15	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Medium	None	N/A	None
WAS-4640	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.58	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4641	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.47	Moderate	Clear	Impact	Low	Temp/Daily	Moderate	Minor	None	Moderate	OH & UG
WAS-4642	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.12	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4644	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.93	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4645	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.25	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4646	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.11	Moderate	Clear	Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-4647	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.65	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4651	Phase 1 South	021402	02070008	SWM Facility - Ch 3	1.77	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4652	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.24	Minor	Clear	No Impact	High	Temp/Daily	No Impacts	Medium	None	N/A	OH & UG
WAS-4653	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.34	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	Moderate	OH & UG
WAS-4655	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.35	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-4656	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.11	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Hard	None	N/A	OH & UG
WAS-4657	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.15	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-4658	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
WAS-4659	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.10	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-4660	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.30	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH
WAS-5301	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.14	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	UG
WAS-5302	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.13	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-5304	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.30	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-5306	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.68	Minor	Clear	Impact	Low	Long Term	Moderate	Minor	None	N/A	OH
WAS-5307	Phase 1 South	021402	02070008	SWM Facility - Ch 3	1.12	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH
WAS-5308	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.57	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-5310	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.66	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	Minimal	None
WAS-5311	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.26	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	OH & UG
WAS-5312	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.21	Minor	Clear	No Impact	Low	Temp/Daily	No Impacts	Minor	None	N/A	OH & UG
WAS-5313	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.86	Moderate	Clear	No Impact	Moderate	Long Term	No Impacts	Minor	None	Moderate	OH & UG
WAS-5314	Phase 1 South	021402	02070008	SWM Facility - Ch 3	1.05	Moderate	Clear	No Impact	Low	Long Term	No Impacts	Hard	None	Moderate	OH & UG

Site Name	Phase[5]	MDE 6-Digit Watershed	Federal 8-Digit HUC	Potential SWM Facility Type	Potential IAT for WQ Credit (Pe = 1") (AC)	Discipline Ratings[6]									
						Constructability	Cultural Resources	Forestry	Hazardous Materials	Maintenance of Traffic	Wetlands & Waterways	Right-of-Way	Section 4(f)	Structures	Utilities
WAS-5315	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.66	Minor	Clear	No Impact	Moderate	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
WAS-5316	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.29	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-5317	Phase 1 South	021402	02070008	SWM Facility - Ch 5	0.62	Minor	Clear	No Impact	Low	Long Term	No Impacts	Minor	None	N/A	None
WAS-5601	Phase 1 South	021402	02070008	SWM Facility - Ch 3	0.96	Significant	Minor	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
WAS-5602	Phase 1 South	021402	02070008	SWM Facility - Ch 3	1.04	Moderate	Clear	No Impact	Low	Temp/Daily	No Impacts	Medium	None	Moderate	OH & UG
MO_00018	Phase 1 South	2140202	02070008	Stream Restoration	43.40	N/A	Minor	Impact	Low	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	OH
MO_00029	Other Phase	2140206	02070010	Stream Restoration	6.50	N/A	Clear	Impact	Moderate	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	OH
MO_00047A	Phase 1 South	2140208	02070008	Stream Restoration	38.40	N/A	Minor	Impact	Low	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	OH
MO_00051	Phase 1 South	2140202	02070008	Stream Restoration	17.40	N/A	Clear	Impact	Low	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	None
MO_1540045	Phase 1 South	2140208	02070008	Stream Restoration	30.80	N/A	Clear	Impact	Low	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	OH & UG
MPAO_0014	Other Phase	2140205	02070010	Stream Restoration	37.10	N/A	Minor	Impact	Moderate	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	OH
MPAO_0015	Other Phase	2140206	02070010	Stream Restoration	2.80	N/A	Minor	Impact	Low	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	OH
MPAO_0022-Backup	Other Phase	2140205	02070010	Stream Restoration	31.60	N/A	Clear	Impact	Low	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	OH
MPOC-0009	Phase 1 South	2140208	02070008	Stream Restoration	36.30	N/A	Clear	Impact	Low	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	OH
MPOC_0006_0010_0011	Phase 1 South	2140202	02070008	Stream Restoration	11.50	N/A	Clear	Impact	Low	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	None
MPOC_0008	Phase 1 South	2140202	02070008	Stream Restoration	27.20	N/A	Clear	Impact	Moderate	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	None
PG_00079-Backup	Other Phase	2140205	02070010	Stream Restoration	17.20	N/A	Clear	Impact	Low	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	None
SSS_150023	Other Phase	2140205	02070010	Stream Restoration	17.90	N/A	Clear	Impact	Low	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	OH
SSS_160023-Backup	Other Phase	2131103	02060006	Stream Restoration	26.50	N/A	Clear	Impact	Low	Long Term	Self-Mitigating	Hard	Severe	N/A	OH & UG
SSS_160065_160066	Other Phase	2140205	02070010	Stream Restoration	17.80	N/A	Moderate	Impact	Moderate	Temp/Daily	Self-Mitigating	Hard	Severe	N/A	OH

[5] Represents SWM IAT potential provided by the compensatory SWM sites which fall within the MLS Phase 1 South and Phase 1 South JPA. Refer to **Figure 6-1** & **Figure 6-2**.

[6] Discipline Ratings (See corresponding Discipline Appendices presented in **Table 4-1** for more information):

- Constructability – No impact = No constructability issues apparent.
  Minor = Construction is possible with relatively modestly impactful methods and average cost. Sites may need MOT, CTB (Concrete Traffic Barrier), or may have a constrained layout affecting productivity. Sand Filters may need shoring but utilities are not an issue and MOT is relatively simple.
  Moderate = Construction is possible with conventional methods and above average cost but requires significantly more effort than the Minor category. Additional MOT methods may be necessary. Shoring, whether trench boxes or other designed methods would be required to complete the work safely. Overhead and underground utilities may be in close proximity warranting additional safeguards, but not to the level that relocation is required.
  Significant = Construction is possible, but only with majorly impactful methods and higher cost. Sites may have extremely heavy traffic that will require significant MOT to ensure worker safety. Sites may have observable utilities that would need timely and expensive relocation in order work safely (relocation of poles, etc.) Site may have extremely limited access that will require unusual methods with slower production.
- CR – Clear = No conflict with known or likely historic or archaeologic site(s). No further survey or evaluation recommended at this time.
  Minor = Minor conflict with known historic or archaeologic site(s). Determination of eligibility (DOE) form for standing structure likely required.
  Moderate = Moderate conflict with known historic or archaeologic site(s). DOE form for standing structure and/or evaluation of historic properties likely required.
  Significant = Significant conflict with historic or archaeological site. Phase 1 archaeological survey and/or significant coordination with other agencies likely required.
- Forestry – No Impact = No specimen trees or forests identified on-site.
  Impact = Specimen trees or forests identified on-site.
- HAZMAT – Low = Environmental impacts are unlikely to be encountered within the limits of that LOD. Either had no documented releases or prior releases at PSOCs within or in close proximity to the LOD were documented to be adequately remediated.
  Moderate = Insufficient information has been obtained to-date to make a clear risk determination of environmental impacts with that LOD, and environmental impacts cannot be completely ruled out.
  High = Potentially having impacted soil and groundwater within the limits of LOD. Have documented releases within their boundaries or are located within or adjacent to PSOCs with known environmental impacts and thus, have the greatest potential to be impacted by petroleum or other hazardous/regulated materials.
- MOT – No MOT = No MOT required
  Temp/Daily = Temporary/Daily shoulder closures likely required
  Long term = Long term shoulder closures with barriers likely required
  Complex = Complex MOT design likely required
- Wetlands and Waterways – No impact = Zero functional loss to wetlands or waterways.
  Minor = Impacts to resources do not result in functional losses that are not partially compensated by the stormwater activity.
  Moderate = Impacts <50% of the site and re-configuration of the site may reduce impacts to an acceptable level.
  Significant = Impacts >50% of the site is covered by wetlands or waterways and construction of the site would result in functional loss.
  Self-Mitigating = Regulatory agencies would not require impacts to be mitigated as the waterway and/or wetland function would improve.
- ROW – Minor = Site is located entirely within MDOT SHA ROW and no property acquisitions or easements required.
  Medium = Site is located partially on private property, acquisition or easements will be required.
  Hard = Site is located partially on parkland or WMATA property, acquisition or easements will be required.
- Section 4(f) – None = No impact to 4(f) properties.
  Low = Fringe impact on 4(f) properties but would likely result in de minimis impacts.
  Moderate = Impact to 4(f) properties likely to be interpreted as an adverse effect resulting in Individual 4(f).
  Severe = impact is significant compared to size of the 4(f) property/resource.
- Structures – Minimal = No structural issues.
  Moderate = Concerns associated with utilities, slope severity/stability, or potential modifications to existing structures that would require engineering/innovative solutions.
  Major = Structure is not recommended without further study and investigation or existing structures may be negatively impacted by construction.
- Utilities – None = No observed utility surface indicators to indicated underground (UG) utilities or overhead (OH) utility features.
  OH = OH utilities only observed along site.
  OH & UG = OH and UG utilities observed along site.
  UG = UG utilities only observed along site.
  Not Feasible = Utility relocation not feasible.

7 REFERENCES

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APPENDIX A – WATER RESOURCES EVALUATION

Compensatory Stormwater Management Sites
for the I-495 and I-270 Managed Lanes Study

APPENDIX A: Water Resources Desktop Evaluations & Field Assessments

1. Background

The Stormwater Management (SWM) Study prepared in support of the National Environmental Policy Act (NEPA) efforts for the Public Private Partnership (P3) I-495 and I-270 Managed Lanes Study (MLS) has indicated that it is likely that not all SWM water quality requirements, or impervious area requiring treatment (IART), can be provided practically within the MLS study area and will need to be provided elsewhere, thus requiring compensatory SWM mitigation sites outside the MLS Limit of Disturbance (LOD) in order to meet the full SWM water quality requirements. All compensatory SWM mitigation must occur in the same Maryland Department of the Environment (MDE) 6-Digit Watersheds impacted by the MLS and must treat a minimum of 1.0-inch water quality. For the Joint Permit Application (JPA), environmental impacts and ground disturbances must be mitigated within the same Federal 8-Digit Hydrologic Unit Codes (HUC).

The Water Resources (WR) discipline leads the effort in identifying potential compensatory SWM sites to mitigate for SWM water quality that cannot be met on-site. Compensatory SWM sites include potential Chapter 5 and Chapter 3 SWM facilities adjacent to Maryland Department of Transportation State Highway Administration (MDOT SHA) roadways and properties, stream restoration sites, and pavement removal sites within the MDE Washington Metropolitan Watershed (WAS – No. 021402), and Patuxent River Watershed (PAX – No. 021331).

In general, the MLS water quality requirements are estimated as shown below. See the main document for a full listing of the MLS SWM requirements.

Table A-1: MLS SWM Requirements, On-Site vs. Compensatory

MDE 6-Digit Watershed	MLS SWM IART Requirement (AC)	Estimated On-Site SWM IAT Provided (AC)	Target Compensatory SWM IART Requirement (AC)
Washington Metropolitan (No. 021402)	617	300	317
Patuxent River (No. 021331)	98	64	34
Totals for All Impacted MDE Watersheds	715	364	351

2. Methodology and Assumptions

The WR discipline methodologies, assumptions, and data management process are documented in the (1) *I-495_I-270 P3 Compensatory SWM Site Search GIS Workflow* and (2) *I-495_I-270 P3 Compensatory WQ Stream Site Search GIS Workflow* (GIS Workflows), (3) *I-495_I-270 P3 Compensatory Site Search Protocol* and (4) *I-495_I-270 P3 Compensatory WQ Stream Site Search Protocol* (Site Search Protocols), (5) *I-495/I-270 P3 Compensatory SWM Site Search Field Form* and (6) *I-495_I-270 P3 Compensatory WQ Stream Site Search Field Form* (Field Forms), and (7) *I-495/270 P3 Compensatory SWM Program Virtual Desktop QA/QC Protocol* (QA/QC) provided with this Appendix. It should be noted, not all

information referenced in these documents is provided in this document directly, but the intent is to demonstrate the workflow and data management process that the WR discipline implemented for their desktop evaluations and field assessments. The pertinent information that impacts and supports the compensatory SWM water quality credits has been provided.

The base data utilized to perform the WR discipline desktop evaluations include aerial imagery, street view information, field assessment data, and the following Geographic Information System (GIS) data, plus the base data utilized and provided by other disciplines:

- Anne Arundel, Calvert, Charles, Howard, Montgomery, Prince George's, and St. Mary's County and P3 Light Detection and Ranging (LiDAR) Elevation Data
- State of Maryland County and Municipal boundaries, MDOT SHA District boundaries, MDOT SHA Maintenance Shop boundaries, and MDE 6-Digit Watershed boundaries
- Montgomery County, Prince George's County, and MDOT SHA impervious areas
- MDOT SHA and Prince George's County National Pollution Discharge Elimination System (NPDES) drainage data, including channel and storm drain conveyances and structures, existing SWM facilities and their associated drainage areas
- Anne Arundel, Calvert, Charles, Frederick, Howard, Montgomery, Prince George's, and St. Mary's County; Montgomery and Prince George's County Municipal; and MDOT SHA roadways
- Maryland Transportation Authority (MDTA) and MDOT SHA Total Maximum Daily Load (TMDL) data; including planned SWM facility locations, SWM facilities currently under construction, existing SWM facilities and associated drainage areas.
- Areas of exclusion where no potential compensatory SWM sites should be considered. Areas of exclusion were identified as locations where existing SWM facilities exist and the impervious area within their defined drainage areas is currently being treated.
- State of Maryland-owned properties
- United States Department of Agriculture (USTORMDRAINA) Soil Survey Geographic Database (SSURGO) soils data
- Federal Emergency Management Agency (FEMA) delineated floodplains
- Fish and Wildlife Services (FWS) National Wetlands Inventory (NWI) and MD Department of Natural Resources (DNR) delineated wetlands

Additional information regarding the WR discipline base data can be found in the GIS Workflows provided later in this Appendix.

When a site was identified by the WR discipline, a site name designating the MDE 6-Digit Watershed combined with a sequential number and a LOD was delineated with consideration of MDOT SHA right-of-way, MDE SWM facility type, maximization of impervious area draining to the site, construction access and staging/stockpile areas, constructability, maintenance of traffic, and erosion and sediment control and maintenance of streamflow. In addition, the LOD was set with consideration of freeboard requirements, grading, revised drainage area with offsite diversion of drainage, and roadside safety (guardrail or other).

The WR discipline conducted field visits for each site and associated LOD. During the field assessments the WR discipline verified existing drainage patterns, existing impervious area within the contributing drainage area to each site, site accessibility for construction/maintenance of traffic, and existing site conditions/constraints, including visual indicators for sub-grade and above-grade utilities, slopes,

vegetation, trees and other environmental features, roadway sections and features (signage, fire hydrant, guardrail) within the LOD, outfall condition and overall feasibility.

These LODs were also distributed to other disciplines for further evaluation. Feasibility of the sites was determined based on the evaluations performed by Cultural Resources (Archeology and Historic Standing Structures), Forestry, Hazardous Materials, Maintenance of Traffic; Wetlands and Waterways, Right-of-Way, Section 4(f), Structures, and Utility. These evaluations are provided under separate appendices.

Upon receipt of other discipline comments, the LOD and site were re-evaluated by the WR discipline to determine a final LOD and feasibility status of each site. The LOD at each site was modified, to the maximum extent possible for a desktop/planning evaluation, to ensure inclusion of the recommendations for MOT and roadway (or sidewalk) adjustments; construction access; avoidance and minimization of impacts to natural, cultural, and archeological resources; feasibility to meet vertical elevation connections for SWM facility outfalls or discharges to existing storm drain networks; storm drain re-configurations; and outfall stabilizations.

MDE and MDOT SHA guidance documents, criteria, and requirements for SWM facilities, stream restoration, and pavement removal were followed when determining the potential Impervious Area Treated (IAT) credit at each site. It has been assumed that both Chapter 3 and Chapter 5 SWM facilities, stream restoration, and pavement removal would be adequate to meet the MLS SWM IART requirements and would be acceptable to MDE. Table A-2 describes how the IAT values calculated for each site and stream reach were determined:

Table A-2 – IAT Crediting Assumptions

Compensatory SWM Site Type	Notes	IAT Credit
SWM Facility (Ch 3 and Ch 5)	Each facility will be required to treat a minimum 1.0 inch of runoff from impervious areas draining to the facility	100% MDOT SHA impervious area (acres) + 50% non-MDOT SHA impervious area (acres) draining to facility = IAT credit
Stream Restoration		1 acre per 100 LF of stream restored = IAT credit
Pavement Removal		50% impervious area removed (acre) = IAT credit

Because the WR evaluations have been based primarily on GIS and field data the P3 Developer will be responsible for obtaining other detailed data, including survey, and conduct additional reviews of selected sites as necessary to progress designs of any of the compensatory SWM facilities.

3. Results

Table A-5 and Table A-6 below, summarizes pertinent information from the desktop evaluations and field assessments performed by the WR discipline. For the other discipline data utilized to inform each site, please refer to each discipline's Appendix as presented in the main document. Table A-5 summarizes the potential (1) Site Name (indicating MDE 6-Digit Watershed) (2) JPA Phase (3) Federal 8-Digit Hydrologic Unit Code (4) SWM Facility Type (Chapter 3, Chapter 5), or pavement removal) (5) LOD area (6) IAT for WQ credit (PE=1") and (7) WR discipline comments for SWM facility sites while Table A-6 summaries the potential (1) Site Name (2) JPA Phase (3) Federal 8-Digit Hydrologic Unit Code (4) LOD area (5) stream restoration length (6) IAT for WQ credit (PE=1") and (7) WR discipline comments for stream restoration sites.

4. Conclusion

Of the 2,000+ potential compensatory SWM sites initially identified by WR, A total of 754 were found feasible by the WR and all other disciplines to address the 351 plus acres of IART deficit to be addressed by compensatory SWM sites. See Table A-3 and Table A-4 for the breakdown of compensatory SWM sites identified and potential IAT provided.

Table A-3 – Potential IAT Provided by All Compensatory SWM Sites

MDE 6-Digit Watershed	Target Compensatory SWM IART requirement (AC)	Potential Compensatory SWM IAT (AC)	Number of Compensatory SWM Sites Identified
Washington Metropolitan (No. 021402)	317	577 (241 SWM Facilities 336 Stream Restoration)	614 (600 SWM Facilities 14 Stream Restoration)
Patuxent River (No. 021331)	34	86 (60 SWM Facilities 26 Stream Restoration)	140 (139 SWM Facilities 1 Stream Restoration)
Totals for All Impacted MDE Watersheds	351	663 (300 SWM Facilities 363 Stream Restoration)	754 (739 SWM Facilities 15 Stream Restoration)

Table A-4 – Potential IAT by Compensatory SWM Site Type

MDE 6-Digit Watershed	Potential SWM IAT by Chapter 5 SWM Facilities (AC - # of Sites)	Potential SWM IAT by Chapter 3 SWM Facilities (AC - # of Sites)	Potential SWM IAT by Pavement Removal (AC - # of Sites)	Potential SWM IAT by Stream Restoration (AC - # of Sites)
Washington Metropolitan (No. 021402)	113 – 362 sites	127 – 234 sites	0.6 – 4 sites	336 – 14 sites
Patuxent River (No. 021331)	52 – 127 sites	8 – 10 sites	0.1 – 2 sites	26 – 1 site
Totals for All Impacted MDE Watersheds	165 – 489 sites	135 – 244 sites	0.7 – 6 sites	362 – 15 sites

The P3 Developer will be responsible for the final design and permitting of any selected SWM site, regardless of its inclusion in this list. Any selected compensatory SWM site will need to be designed in accordance with MDE and MDOT SHA standards, criteria, and regulations as well as any commitments in the MLS JPA and agreements between the P3 Developer and MDOT SHA.

Applicable permits for compensatory SWM and stream restoration designs that the P3 Developer may be required to obtain are:

- MDOT SHA Plan Review Division (PRD) Permit for SWM, ESC, and small pond review
- MDE Wetlands & Waterways (W/W) Permit for impacts to wetlands and waterways
- MDE Dam Safety Division (DSTORMDRAIN) Permit for SWM facilities and/or roadway which are classified as dams under MD Code 378

Table A-5 – Water Resources Desktop Evaluation and Field Assessment Summary Table for SWM Facility Sites.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
PAX-0014	Future Phase	02060006	SWM Facility - Ch 5	0.56	0.33	A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. Road signs within median may be impacted. Existing downstream inlet appears to be too shallow for underdrain/outfall tie-in, lowering of the system may be required.
PAX-0016	Future Phase	02060006	SWM Facility - Ch 3	0.45	1.47	Site previously identified during TMDL efforts as PG-MP-0124. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. This area may be designated for maintenance, crack sealing, patching and bridge deck overlay per XY2295B77 and XX1125A77 (MDOT SHA District 3).
PAX-0017	Future Phase	02060006	SWM Facility - Ch 5	0.37	0.57	Potential that the ROW is along exiting fence line, which is closer to the road than the GIS ROW layer indicates at this location. Embankment of ditch near ROW fence has steep slopes. Minor road signs may need relocation/reset. Facility would be adjacent to a hotel. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
PAX-0018	Future Phase	02060006	SWM Facility - Ch 5	0.34	0.50	Site previously identified during TMDL efforts as PG-MP-0108. Steep slopes at NW side. Consider daylighting an underdrain/outfall tie-in downstream in existing channel. Commercial signs adjacent to site. Tree line located between site and adjacent businesses. The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer.
PAX-0019	Future Phase	02060006	SWM Facility - Ch 5	0.49	0.56	Site previously identified during TMDL efforts as PG-MP-0109. Existing downstream inlet appears to be too shallow for underdrain/outfall tie-in, lowering of the system may be required.
PAX-0020	Future Phase	02060006	SWM Facility - Ch 5	0.23	0.16	Potential outfall tie in at existing downstream inlet. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-0022	Future Phase	02060006	SWM Facility - Ch 5	0.12	0.15	Existing downstream inlet appears to be too shallow for underdrain/outfall tie-in, lowering of the system may be required. The existing inlet outfalls across the road to another inlet whose depth may be adequate to allow for lowering of the storm drain system. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
PAX-0026	Future Phase	02060006	SWM Facility - Ch 5	0.39	0.24	Site previously identified during TMDL efforts as PG-MP-0110. Existing inlet in site does not appear to be deep enough for underdrain/outfall tie-in without lowering the storm drain system. This area may be designated for roadway improvements per XX1315B77 (MDOT SHA District 3).
PAX-0029	Future Phase	02060006	SWM Facility - Ch 5	0.71	0.41	Site previously identified during TMDL efforts as PG-DBT-1106. The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. NPDES database shown does not match field conditions (drainage structures and associated systems not shown). Adjacent to commercial property. This area may be designated for roadway improvements per XX1315B77 (MDOT SHA District 3).
PAX-0030	Future Phase	02060006	SWM Facility - Ch 5	1.91	1.10	Site previously identified during TMDL efforts as PG-DBT-1107. The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. Areas from bottom of existing swale to tree line (ROW) are steep. Potential outfall tie in at existing downstream culvert. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. Potential to break into multiple SWM facilities. This area may be designated for roadway improvements per XX1315B77 (MDOT SHA District 3).
PAX-0034	Future Phase	02060006	SWM Facility - Ch 5	0.45	0.34	Site encompasses wooded area just north of the ditch line. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
PAX-0039	Future Phase	02060006	SWM Facility - Ch 5	0.53	0.19	Site is adjacent to residential property. Downstream inlet may be too shallow to tie-in underdrain/outfall without lowering the outgoing pipe. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-0041	Future Phase	02060006	SWM Facility - Ch 5	0.16	0.22	Site previously identified during TMDL efforts as PG-DBT-1112. In front of a school. Potential outfall tie in at existing downstream inlet. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-0042	Future Phase	02060006	SWM Facility - Ch 5	0.47	0.62	There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Verification of existing storm drain depths will be needed to determine if facility could provide an underdrain/outfall.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
PAX-0045	Future Phase	02060006	Pavement Removal	0.14	0.01	Unnecessary gravel and pavement off shoulder. It is possible more pavement lies beneath the surrounding gravel but could not confirm.
PAX-0046	Future Phase	02060006	SWM Facility - Ch 5	0.43	0.31	Site previously identified during TMDL efforts as PG-DBT-1112. Double-post Road sign may need relocation/reset. Potential outfall tie in at existing downstream inlet.
PAX-0047	Future Phase	02060006	SWM Facility - Ch 5	0.60	0.62	Site previously identified during TMDL efforts as PG-MP-0127. Holes found in downstream inlet that could be for underdrain, but this could not be confirmed. Could find no observation wells throughout site. Inlet holes may be for roadway underdrain or simply have no pipes coming in them. Potential outfall tie in at existing downstream inlet. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
PAX-0048	Future Phase	02060006	SWM Facility - Ch 5	0.49	0.35	Site previously identified during TMDL efforts as PG-MP-0128. Signal pole located near downstream inlet may be impacted by construction. Minor road sign within site may need to be relocated. Downstream inlet may be too shallow to tie-in underdrain/outfall.
PAX-0049	Future Phase	02060006	SWM Facility - Ch 5	0.24	0.20	There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential outfall tie in at existing downstream inlet. Double-post Road sign may need to be relocated/reset.
PAX-0051	Future Phase	02060006	SWM Facility - Ch 5	0.18	0.18	The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. Existing width of median may prevent placement of facility with filter media.
PAX-0059	Future Phase	02060006	SWM Facility - Ch 5	0.31	0.40	A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. Potential to outfall across roadway. The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer.
PAX-0061	Future Phase	02060006	SWM Facility - Ch 5	0.87	0.64	Site previously identified during TMDL efforts as PG-DBT-1113. Site adjacent to church. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential outfall tie in at existing downstream inlet
PAX-0062	Future Phase	02060006	SWM Facility - Ch 5	0.51	0.51	Site previously identified during TMDL efforts as PG-MP-0116. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
PAX-0063	Future Phase	02060006	SWM Facility - Ch 5	0.46	0.09	Site previously identified during TMDL efforts as PG-DBT-1115. Steep slopes adjacent to road at downstream end near outfall location. Double-faced metal median traffic barrier runs through site and may need to be relocated for BMP installation. Area is located in front of subdivision. Small area of open space offsite. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. The downstream culvert may need to be replaced and lowered to provide a facility with an underdrain.
PAX-0064	Future Phase	02060006	SWM Facility - Ch 5	0.26	0.37	Site previously identified during TMDL efforts as PG-KSL-1001. Site is in front of subdivision, adjacent to landscaping, permanent monument signs, and gazebos. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-0076	Future Phase	02060006	SWM Facility - Ch 5	0.49	0.32	Site previously identified during TMDL efforts as PG-MP-0118. May need to install underdrain to the east and tie into existing inlet if a facility with a filter media is provided.
PAX-0080	Future Phase	02060006	SWM Facility - Ch 5	0.64	0.26	A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. Active construction taking place across US 301 to the west.
PAX-0301	Future Phase	02060006	SWM Facility - Ch 5	0.85	0.52	Site previously identified during TMDL efforts as PG-DBT-1141. If PAX-0305 and PAX-0302 are constructed as facilities with an underdrain, then this site has the potential to also have an underdrain and the facilities could be connected.
PAX-0302	Future Phase	02060006	SWM Facility - Ch 5	0.44	0.21	Site previously identified during TMDL efforts as PG-DBT-1141. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. If PAX-0305 is constructed as a facility with an underdrain, then this site has the potential to also have an underdrain and the facilities could be connected.
PAX-0304	Future Phase	02060006	SWM Facility - Ch 5	3.15	0.98	Site previously identified during TMDL efforts as PG-MP-0146. A portion of a completed TMDL tree planting site would likely be impacted during construction.
PAX-0305	Future Phase	02060006	SWM Facility - Ch 5	1.02	0.58	Site previously identified during TMDL efforts as PG-MP-0147. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. The existing outfall area of the existing grass ditch has failed. The LOD is extended as repair of this location would be required with a proposed facility.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
PAX-0308	Future Phase	02060006	SWM Facility - Ch 5	1.43	0.47	Site previously identified during TMDL efforts as PGGR1-GRSW-2238. Potential outfall tie in at existing downstream inlet. This area may be designated for roadway improvements per US 301 from Weigh Station to MD 21. No contract available (MDOT SHA District 3).
PAX-0310	Future Phase	02060006	SWM Facility - Ch 5	0.79	0.11	Site previously identified during TMDL efforts as PG-DBT-1143. This area may be designated for roadway improvements per US 301 from Weigh Station to MD 21 (MDOT SHA District 3).
PAX-0311	Future Phase	02060006	SWM Facility - Ch 5	1.44	0.48	Site previously identified during TMDL efforts as PG-DBT-1144. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. This area may be designated for roadway improvements per US 301 from Weigh Station to MD 21 (MDOT SHA District 3).
PAX-0312	Future Phase	02060006	SWM Facility - Ch 5	1.04	0.38	A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. This area may be designated for roadway improvements per US 301 from Weigh Station to MD 21 (MDOT SHA District 3).
PAX-0313	Future Phase	02060006	SWM Facility - Ch 5	0.59	0.16	The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. Potential public concern as construction would disturb a golf course entrance. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. This area may be designated for roadway improvements per US 301 from Weigh Station to MD 21 (MDOT SHA District 3).
PAX-0315	Future Phase	02060006	SWM Facility - Ch 3	1.32	0.77	Site previously identified during TMDL efforts as PG-MP-1025. The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. There appears to potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. This area may be designated for roadway improvements per US 301 from Weigh Station to MD 21 (MDOT SHA District 3).
PAX-0601	Future Phase	02060006	SWM Facility - Ch 5	0.80	0.33	Site previously identified during TMDL efforts as PG-MP-0190. Site is bordering residential back yards. It appears the ROW has been expanded to the east to widen the road. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. There is an existing berm diverting most of the offsite drainage area around the site. Potential to extend berm to further limit offsite runoff to the potential site. Existing aerial is out of date. This area may be designated for unknown improvements per PG9345187 (MDOT SHA DISTRICT 3).
PAX-0602	Future Phase	02060006	SWM Facility - Ch 5	1.11	0.45	Site previously identified during TMDL efforts as PG-DBT-1187. Existing vault found near north end of site, but appears it may be abandoned. Site is adjacent to private residential properties, but properties are completely lined with privacy fence. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
PAX-0608	Future Phase	02060006	SWM Facility - Ch 5	0.28	0.18	Site is moderately close to private homes. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-0610	Future Phase	02060006	SWM Facility - Ch 5	0.88	0.26	Site previously identified during TMDL efforts as PGGr2-JMT-021. Site bordering a church and children's center. Existing church sign may be impacted. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. Potential outfall tie in at existing downstream inlet.
PAX-0616	Future Phase	02060006	SWM Facility - Ch 5	0.91	0.31	Potential to outfall to existing storm drain system. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
PAX-0618	Future Phase	02060006	SWM Facility - Ch 5	1.36	0.45	Site previously identified during TMDL efforts as PGGR1-GRSW-1015. Potential to daylight outfall in existing ditch. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
PAX-0620	Future Phase	02060006	SWM Facility - Ch 5	1.65	0.36	Potential outfall tie in at existing downstream inlet.
PAX-0621	Future Phase	02060006	SWM Facility - Ch 5	3.20	0.76	Site previously identified during TMDL efforts as AA-LMO-1256. Potential outfall tie in at existing downstream inlet.
PAX-0622	Future Phase	02060006	SWM Facility - Ch 5	2.01	0.32	Potential outfall tie in at existing downstream inlet. Potential to daylight outfall.
PAX-0624	Future Phase	02060006	SWM Facility - Ch 3	0.62	0.76	Site previously identified during TMDL efforts as AAGr2-WTB-338. Potential to daylight outfall to an existing ditch east of the site.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
PAX-0625	Future Phase	02060006	SWM Facility - Ch 5	0.88	0.46	Site previously identified during TMDL efforts as AAGr2-WTB-341. Potential to outfall to existing ditch. Church signage within site. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
PAX-0626	Future Phase	02060006	SWM Facility - Ch 5	0.96	0.38	Site previously identified during TMDL efforts as AA-LMO-1260. Potential to outfall to roadside ditch. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-0641	Future Phase	02060006	SWM Facility - Ch 5	0.58	0.48	Site previously identified during TMDL efforts as PGGR1-GRSW-1021. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
PAX-0951	Future Phase	02060006	SWM Facility - Ch 5	0.16	0.09	Site previously identified during TMDL efforts as PG-DBT-1207. Potential to outfall to existing channel. A small amount of offsite open space appears to flow to the site. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-0961	Future Phase	02060006	SWM Facility - Ch 5	0.95	0.56	Site previously identified during TMDL efforts as PGGR1-GRSW-1037. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. Potential outfall tie in at existing downstream inlet.
PAX-0965	Future Phase	02060006	SWM Facility - Ch 5	0.49	0.15	A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
PAX-1204	Future Phase	02060006	SWM Facility - Ch 5	0.26	0.27	Potential to daylight and underdrain/outfall in the existing ditch downstream.
PAX-1205	Future Phase	02060006	SWM Facility - Ch 5	0.42	0.15	Appears to be an existing fence within the SHA ROW that may need to be relocated. Potential to daylight and underdrain/outfall in the existing ditch downstream.
PAX-1206	Future Phase	02060006	SWM Facility - Ch 5	0.96	0.43	Baseflow in ditch was observed. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. May require the removal/relocation of a fence that appears to be within the SHA ROW.
PAX-1209	Future Phase	02060006	SWM Facility - Ch 5	0.42	0.16	Potential to daylight and underdrain/outfall in the existing ditch downstream.
PAX-1210	Future Phase	02060006	SWM Facility - Ch 5	0.49	0.34	May require removal of brush and small woody vegetation. It appears there is potential to daylight and underdrain/outfall in the existing ditch downstream.
PAX-1211	Future Phase	02060006	SWM Facility - Ch 5	0.54	0.26	A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
PAX-1213	Future Phase	02060006	SWM Facility - Ch 5	0.85	0.18	It appears there is potential to daylight and underdrain/outfall in the existing ditch downstream.
PAX-1502	Future Phase	02060006	SWM Facility - Ch 5	1.58	0.82	A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. Potential outfall tie in at existing downstream inlet.
PAX-1504	Future Phase	02060006	SWM Facility - Ch 5	0.31	0.17	A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. Potential to adjust existing storm drain system to tie into outfall.
PAX-1509	Future Phase	02060006	SWM Facility - Ch 5	1.42	0.58	Existing storm drain culvert at downstream location of site does not appear to be deep enough for underdrain/outfall tie-in without lowering and extending the storm drain system.
PAX-1510	Future Phase	02060006	SWM Facility - Ch 5	0.27	0.11	Potential to outfall to existing culvert.
PAX-2001	Future Phase	02060006	SWM Facility - Ch 3	1.01	0.92	Existing open space adjacent to high school. Curbed roadway section. Potential for a new STORMDRAIN for BMP inflow and outflow to connect to existing STORMDRAIN system. Record of HAZMAT spills has potential to impact groundwater and pollute flow within proximity to SWM facility.
PAX-2005	Future Phase	02060006	SWM Facility - Ch 5	1.57	0.54	Existing open space, linear, along highway. Open section roadway. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential for ESTORMDRAIN outlet to discharge to ditch.
PAX-2006	Future Phase	02060006	SWM Facility - Ch 5	0.85	0.73	Existing open space, linear, along highway. Open section roadway. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential for ESTORMDRAIN outlet to discharge to ditch.
PAX-2007	Future Phase	02060006	SWM Facility - Ch 5	0.85	1.03	Existing open space, linear, along highway. Open section roadway. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential for ESTORMDRAIN outlet to discharge to ditch.
PAX-2008	Future Phase	02060006	SWM Facility - Ch 5	1.71	1.01	Existing open space, linear, along highway. Open section roadway. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential for ESTORMDRAIN outlet to discharge to ditch.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
PAX-2009	Future Phase	02060006	SWM Facility - Ch 5	0.38	0.34	Existing open space, linear, along highway. Open section roadway. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential for ESTORMDRAIN outlet to discharge to ditch.
PAX-2010	Future Phase	02060006	SWM Facility - Ch 5	0.79	0.34	Existing open space along highway. Curbed roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to manage bypass or diversion of offsite runoff.
PAX-2012	Future Phase	02060006	SWM Facility - Ch 5	0.59	0.60	Existing open space, linear, along highway. Open section roadway. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. ESTORMDRAIN outlet to ditch/outfall appears feasible.
PAX-2013	Future Phase	02060006	SWM Facility - Ch 5	0.61	0.37	Existing open space, linear, along highway and adjacent to residential development. Open and curbed sections of roadway. Potential new STORMDRAIN culvert to allow for ESTORMDRAIN outlet to discharge downstream.
PAX-2015	Future Phase	02060006	SWM Facility - Ch 3	1.23	0.83	Existing open space along highway. Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to manage bypass or diversion of offsite runoff.
PAX-2016	Future Phase	02060006	SWM Facility - Ch 5	0.36	0.47	Existing open space along highway. Curbed section roadway. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
PAX-2017	Future Phase	02060006	SWM Facility - Ch 5	0.47	0.21	Existing open space between ramp and highway. Curbed section roadway. Potential to connect SWM outfall to existing STORMDRAIN.
PAX-2018	Future Phase	02060006	SWM Facility - Ch 5	0.94	0.97	Existing open space, linear, along highway. Open section roadway. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. ESTORMDRAIN outlet to ditch/outfall appears feasible.
PAX-2019	Future Phase	02060006	SWM Facility - Ch 5	0.89	1.07	Existing open space, linear, along highway. Open section roadway. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. ESTORMDRAIN outlet to ditch/outfall appears feasible.
PAX-2020	Future Phase	02060006	SWM Facility - Ch 3	1.15	0.39	Existing open space along highway. Curbed section roadway. Potential to connect SWM outfall to existing STORMDRAIN.
PAX-2021	Future Phase	02060006	SWM Facility - Ch 5	0.42	0.09	Existing open space adjacent to railroad, park and steep slope. Coordination with District 3 pending/active projects would be warranted. Existing sidewalk/trail and curb/gutter roadway section. Potential to require new inflow STORMDRAIN inlet in sidewalk. Potential for ESTORMDRAIN outlet to discharge to ditch. There is new construction of park and a possible new storm drain in progress for which coordination is warranted.
PAX-2501	Future Phase	02060006	SWM Facility - Ch 5	0.80	0.57	Existing open space near roadway. Potential outfall into adjacent ditch. Multiple facilities may be anticipated due to DA size.
PAX-2502	Future Phase	02060006	SWM Facility - Ch 5	0.63	0.57	Existing open space near roadway. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Existing inlet location per NPDES data could not be located during field investigation. Multiple facilities may be anticipated due to DA size.
PAX-2503	Future Phase	02060006	SWM Facility - Ch 5	0.72	0.40	Existing open space near roadway. Potential outfall into existing ditch. Multiple facilities may be anticipated due to DA size.
PAX-2504	Future Phase	02060006	SWM Facility - Ch 5	0.32	0.13	Existing open space near roadway. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2505	Future Phase	02060006	SWM Facility - Ch 5	0.55	0.24	Existing open space near roadway with steep back slope. Potential outfall into existing ditch. Multiple facilities may be anticipated due to DA size.
PAX-2506	Future Phase	02060006	SWM Facility - Ch 5	0.80	0.69	Existing open space near roadway with steep back slope. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. Multiple facilities may be anticipated due to DA size.
PAX-2507	Future Phase	02060006	SWM Facility - Ch 5	0.58	0.24	Existing open space near roadway with steep back slope. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2508	Future Phase	02060006	SWM Facility - Ch 5	0.39	0.37	Existing open space near roadway. Small offsite drainage. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. Multiple facilities may be anticipated due to DA size.
PAX-2509	Future Phase	02060006	SWM Facility - Ch 5	0.61	0.43	Existing open space near roadway. Fence near existing outfall. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2510	Future Phase	02060006	SWM Facility - Ch 5	0.64	0.53	Existing open space near roadway. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2511	Future Phase	02060006	SWM Facility - Ch 5	0.90	0.45	Existing open space near roadway. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2514	Future Phase	02060006	SWM Facility - Ch 5	1.04	0.54	Existing open space in median. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Multiple facilities may be anticipated due to DA size.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
PAX-2515	Future Phase	02060006	SWM Facility - Ch 5	0.64	0.73	Existing open space near roadway. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Existing inlet location per NPDES data could not be located during field investigation. Multiple facilities may be anticipated due to DA size.
PAX-2516	Future Phase	02060006	SWM Facility - Ch 5	0.97	1.23	Existing open space in median. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Multiple facilities may be anticipated due to DA size.
PAX-2518	Future Phase	02060006	SWM Facility - Ch 5	2.04	0.30	Existing open space in median. Overhead sign. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Multiple facilities may be anticipated due to DA size.
PAX-2519	Future Phase	02060006	SWM Facility - Ch 5	1.70	0.30	Existing open space in median. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2520	Future Phase	02060006	SWM Facility - Ch 5	0.67	0.44	Existing open space near roadway. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2521	Future Phase	02060006	SWM Facility - Ch 5	0.57	0.30	Existing open space near roadway. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2522	Future Phase	02060006	SWM Facility - Ch 5	0.44	0.33	Existing open space adjacent to sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. Multiple facilities may be anticipated due to DA size.
PAX-2523	Future Phase	02060006	SWM Facility - Ch 5	0.16	0.18	Existing open space in median. Managed OED landscape. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2524	Future Phase	02060006	SWM Facility - Ch 5	0.17	0.34	Existing open space in median. Managed OED landscape. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2525	Future Phase	02060006	SWM Facility - Ch 5	1.02	0.51	Existing open space near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2529	Future Phase	02060006	SWM Facility - Ch 5	0.71	0.44	Existing open space near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2530	Future Phase	02060006	SWM Facility - Ch 5	0.30	0.19	Existing open space near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2531	Future Phase	02060006	SWM Facility - Ch 5	0.58	0.24	Existing open space near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2537	Future Phase	02060006	SWM Facility - Ch 5	1.54	0.34	Existing open space in median with guard rail. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Multiple facilities may be anticipated due to DA size.
PAX-2538	Future Phase	02060006	SWM Facility - Ch 5	0.63	0.15	Existing open space in median with guard rail. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2539	Future Phase	02060006	SWM Facility - Ch 5	1.20	0.43	Existing open space in median with guard rail. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Multiple facilities may be anticipated due to DA size.
PAX-2540	Future Phase	02060006	SWM Facility - Ch 5	0.49	0.31	Existing open space near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2541	Future Phase	02060006	SWM Facility - Ch 5	0.64	0.38	Existing open space in median with guard rail and landscaping. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2542	Future Phase	02060006	SWM Facility - Ch 5	0.72	0.43	Existing open space in median with guard rail and landscaping. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
PAX-2559	Future Phase	02060006	SWM Facility - Ch 5	0.57	0.59	Existing open space near roadway with guard rail and vegetation. Multiple facilities may be anticipated due to DA size.
PAX-2560	Future Phase	02060006	SWM Facility - Ch 5	0.32	0.24	Existing open space near roadway with curb. Multiple facilities may be anticipated due to DA size.
PAX-2561	Future Phase	02060006	SWM Facility - Ch 5	0.44	0.51	Existing open space near roadway. Multiple facilities may be anticipated due to DA size.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
PAX-3002	Future Phase	02060006	SWM Facility - Ch 5	0.31	0.12	Existing open grassy area near residential area. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
PAX-3003	Future Phase	02060006	SWM Facility - Ch 5	2.66	1.76	Existing roadside grassy area. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
PAX-3004	Future Phase	02060006	SWM Facility - Ch 5	0.30	0.12	Existing roadside grassy area upstream of existing wooded area. Outfall and/or receiving channel may require additional stabilization and/or repair.
PAX-3005	Future Phase	02060006	SWM Facility - Ch 5	0.61	0.31	Existing open grassy area adjacent to wooded area.
PAX-3006	Future Phase	02060006	SWM Facility - Ch 5	0.69	0.23	Existing open grassy median. Outfall and/or receiving channel may require additional stabilization and/or repair.
PAX-3007	Future Phase	02060006	SWM Facility - Ch 5	0.95	0.14	Existing roadside grassy area. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. Outfall and/or receiving channel may require additional stabilization and/or repair.
PAX-3008	Future Phase	02060006	SWM Facility - Ch 5	0.70	0.24	Existing open grassy median.
PAX-3009	Future Phase	02060006	SWM Facility - Ch 5	0.61	0.13	Existing open grassy median. Outfall and/or receiving channel may require additional stabilization and/or repair.
PAX-3011	Future Phase	02060006	SWM Facility - Ch 5	0.79	0.13	Existing vegetated median area. NPDES database shown does not match field conditions (drainage structures and associated systems not shown, in the incorrect location, or draining the wrong direction).
PAX-3012	Future Phase	02060006	SWM Facility - Ch 5	1.52	1.10	Existing grassy median.
PAX-3014	Future Phase	02060006	Pavement Removal	0.27	0.05	Existing pavement adjacent to business.
PAX-3016	Future Phase	02060006	SWM Facility - Ch 5	0.58	0.20	Existing grassy area in median.
PAX-3017	Future Phase	02060006	SWM Facility - Ch 3	0.95	0.60	Existing vegetated area in median.
PAX-3018	Future Phase	02060006	SWM Facility - Ch 5	0.81	0.41	Existing vegetated ditch near commercial area.
PAX-3021	Future Phase	02060006	SWM Facility - Ch 3	3.00	0.91	Existing grassy median near truck weigh station. NPDES database shown does not match field conditions (drainage structures and associated systems not shown, in the incorrect location, or draining the wrong direction).
PAX-3024	Future Phase	02060006	SWM Facility - Ch 5	0.62	0.33	Existing vegetated area near residential area. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
PAX-3025	Future Phase	02060006	SWM Facility - Ch 5	1.09	0.25	Existing vegetated area near residential area. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
PAX-3026	Future Phase	02060006	SWM Facility - Ch 5	0.80	0.23	Existing vegetated area near residential area. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
PAX-3801	Future Phase	02060006	SWM Facility - Ch 5	0.84	0.36	Existing roadside grassy open space near residential property. NPDES database shown does not match field conditions (drainage structures and associated systems not shown, in the incorrect location, or draining the wrong direction). A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
PAX-3802	Future Phase	02060006	SWM Facility - Ch 5	0.55	0.17	Existing roadside grassy open space.
PAX-4001	Future Phase	02060006	SWM Facility - Ch 5	1.51	0.36	Existing open space. Existing trees along LOD. A bypass system may be required to divert drainage from offsite area in order reduce the size of a proposed facility.
PAX-4003	Future Phase	02060006	SWM Facility - Ch 5	1.06	0.34	Existing open space. Adjacent to existing stormwater management pond. No trees within area. Existing church signs within LOD.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
PAX-4004	Future Phase	02060006	SWM Facility - Ch 5	2.06	0.88	Existing open space. Trees along LOD. Outfall may require additional stabilization. This area is located adjacent to MDOT SHA District 3 Access Permit No. 14APPG06120. This area is also located just south of District project No. PG6185170.
PAX-4006	Future Phase	02060006	SWM Facility - Ch 3	1.40	0.23	Existing open space. Several trees within the LOD.
PAX-4007	Future Phase	02070010	SWM Facility - Ch 3	0.86	0.73	Existing open space. Trees within outfall. Enough elevation drop to capture drainage along Silver Hill Road and Marlboro Pike.
WAS-0010	Future Phase	02070010	SWM Facility - Ch 5	0.05	0.22	Site previously identified during TMDL efforts as PGGr1-JMT-099. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential outfall tie in at existing downstream inlet.
WAS-0012	Future Phase	02070010	SWM Facility - Ch 5	0.14	0.45	Site previously identified during TMDL efforts as PG-DBT-1089. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. It appears there is potential to convert existing inlet at site to a control structure for a facility. Adjacent to apartment complex and bypass of drainage from apartment complex may be required.
WAS-0013	Future Phase	02070010	SWM Facility - Ch 5	0.35	0.48	Site previously identified during TMDL efforts as PG-DBT-1092. Existing inlet on site appears to be too shallow for underdrain/outfall tie-in. Potential to tie-into existing inlet within roadway (downstream of existing inlet on site). Another potential outfall location is across the on ramp.
WAS-0070	Future Phase	02070010	SWM Facility - Ch 5	0.78	0.27	Site previously identified during TMDL efforts as PG-MP-0104. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. There is potential that filter media can be placed in fill and the existing cross culvert utilized as the outfall/control structure.
WAS-0072	Future Phase	02070010	SWM Facility - Ch 3	0.19	0.58	Site previously identified during TMDL efforts as PG-MP-0094. The GIS ROW is shown as SHA owning several existing private driveways. Steep slopes south of site. The site is adjacent to private residences. Potential difficulty to bypass small offsite area. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential outfall tie in at existing downstream inlet.
WAS-0073	Future Phase	02070010	SWM Facility - Ch 5	0.23	0.18	Site previously identified during TMDL efforts as PG-MP-0099. The proposed site location is above the existing roadway. Potential outfall tie in at existing downstream inlet. Significant earthwork (cut) will be required at the location of the stie. This area may be designated for roadway improvements per XY2295B77 (MDOT SHA District 3).
WAS-0074	Future Phase	02070010	SWM Facility - Ch 3	1.35	1.72	The western ROW appears inaccurate. Traffic signal poles present at the site may be impacted by construction and/or require relocation. A bypass system may be required to divert drainage from offsite area. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-0075	Future Phase	02070010	SWM Facility - Ch 5	0.57	0.36	Site previously identified during TMDL efforts as PG-DBT-1093. As the gore area widens, the difference in vertical elevation between the edge pf pavements increases. A bypass system may be required to divert drainage from offsite area. This area may be designated for roadway improvements per PG8555177 (MDOT SHA District 3).
WAS-0076	Future Phase	02070010	SWM Facility - Ch 3	0.70	1.46	A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. This area may be designated for roadway improvements per PG8555177 (MDOT SHA District 3).
WAS-0077	Future Phase	02070010	SWM Facility - Ch 3	0.95	1.01	Site previously identified during TMDL efforts as PG-DBT-1098. An adjacent vacant building was previously an auto repair shop (per street view) but the business has since closed. The facility may be several feet deep and will be adjacent to an existing sidewalk. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-0078	Future Phase	02070010	SWM Facility - Ch 5	0.55	0.36	Site previously identified during TMDL efforts as PG-DBT-1096. Site is adjacent to an existing privately owned SWM pond. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. This area may be designated for roadway improvements per PG8555177 (MDOT SHA District 3).
WAS-0081	Future Phase	02070010	SWM Facility - Ch 3	1.00	0.46	Site previously identified during TMDL efforts as PGGr1-JMT-065. Existing w beam may conflict with a proposed facility. A bypass system may be required to divert drainage from offsite area. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. The existing inlet and outgoing pipe may need to be replaced and lowered to provide outfall.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-0082	Future Phase	02070010	SWM Facility - Ch 3	0.75	0.38	Site previously identified during TMDL efforts as PGGr1-JMT-097. Existing w beam may conflict with a proposed facility. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. A bypass system may be required to divert drainage from offsite area. The existing inlet and outgoing pipe may need to be replaced and lowered to provide outfall.
WAS-0083	Future Phase	02070010	SWM Facility - Ch 3	0.73	0.53	Minimal offsite area therefore a bypass is likely not required. Potential outfall tie in at existing downstream inlet.
WAS-0084	Future Phase	02070010	SWM Facility - Ch 5	1.50	0.38	Site previously identified during TMDL efforts as PG-MP-0096. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-0085	Future Phase	02070010	SWM Facility - Ch 3	1.20	0.84	Site previously identified during TMDL efforts as PG-MP-0095. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-0086	Future Phase	02070010	SWM Facility - Ch 3	1.31	0.39	Site previously identified during TMDL efforts as PGGr1-JMT-099. Existing w beam may conflict with a proposed facility. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. The existing inlet and outgoing pipe may need to be replaced and lowered to provide outfall.
WAS-0301	Future Phase	02070010	SWM Facility - Ch 5	0.21	0.13	There appears to be potential to adjust existing storm drain configuration and/or add additional storm drain systems to allow for more impervious area treatment. Potential to outfall to existing SHA storm drain or to a private storm drain system adjacent to the site. It appears a bus stop may need to be relocated. Site is adjacent to a US Post office.
WAS-0302	Future Phase	02070010	SWM Facility - Ch 3	2.25	1.64	Site previously identified during TMDL efforts as PG-DBT-1123. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility (as well as divert adjacent drainage from an existing gas station). There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-0303	Future Phase	02070010	SWM Facility - Ch 5	0.08	0.22	A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. GIS ROW location may be incorrect based on adjacent fence location. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-0304	Future Phase	02070010	SWM Facility - Ch 3	0.77	0.77	There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. GIS ROW west of the proposed site location may be incorrect based on the existing fence location. This area may be designated for roadway improvements per 20appg03220 (Addison Road Station Rehabilitation) (MDOT SHA District 3).
WAS-0307	Future Phase	02070010	SWM Facility - Ch 5	0.53	0.31	Site previously identified during TMDL efforts as PG-DBT-1138. Installation of SWM facility may require relocation of existing sign at downstream portion to maximize the impervious area within the drainage area. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. PG county permanent sign with lighting and landscaping within site. Site located in front of commercial property. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-0312	Future Phase	02070010	SWM Facility - Ch 5	0.36	0.25	Potential outfall tie in at existing downstream inlet
WAS-0313	Future Phase	02070010	SWM Facility - Ch 5	0.26	0.23	Potential outfall tie in at existing downstream inlet
WAS-0315	Future Phase	02070010	SWM Facility - Ch 5	0.24	0.07	Downstream inlet may not have enough depth to tie-in underdrain/outfall, however, there may be potential to replace and lower existing inlet and outgoing pipe to provide additional fall. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-0317	Future Phase	02070010	SWM Facility - Ch 5	0.62	0.25	Site previously identified during TMDL efforts as PGGr2-JMT-271. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. The existing storm drain appears to outfall to the south however the outfall may be buried under sediment. NPDES database shown does not match field conditions (drainage structures may be in the incorrect location, or draining the wrong direction). There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. A southern embankment may need to be placed in fill to provide a SWM facility.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-0318	Future Phase	02070010	SWM Facility - Ch 5	0.12	0.14	Site previously identified during TMDL efforts as PG-DBT-1136. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Adjacent to a church. This area may be designated for roadway improvements per XY2295B77 (MDOT SHA District 3).
WAS-0319	Future Phase	02070010	SWM Facility - Ch 5	0.12	0.24	Site previously identified during TMDL efforts as PG-DBT-1163. Existing inlet appears too shallow for tie-in. Existing ROW may be inaccurate. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Downstream inlet may not have enough depth to tie-in underdrain/outfall, however, there may be potential to replace and lower existing inlet and outgoing pipe to provide additional fall.
WAS-0320	Future Phase	02070010	SWM Facility - Ch 5	0.91	0.57	The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. NPDES database shown does not match field conditions (drainage structures and associated systems not are not shown in entirety). This area may be designated for roadway improvements per XY2295B77 (MDOT SHA District 3).
WAS-0321	Future Phase	02070010	SWM Facility - Ch 5	0.84	0.57	Site previously identified during TMDL efforts as PG-MP-1043. The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. Downstream storm drain structure may not have enough depth to tie-in underdrain/outfall; however, it may be possible to replace and lower existing inlet and outgoing pipe to provide additional fall or end reduce length of facility to daylight outfall. This area may be designated for roadway improvements per XY2295B77 (MDOT SHA District 3).
WAS-0322	Future Phase	02070010	SWM Facility - Ch 3	1.20	1.32	The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-0326	Future Phase	02070010	SWM Facility - Ch 5	0.22	0.21	Tall woody brush present.
WAS-0328	Future Phase	02070010	SWM Facility - Ch 3	0.95	1.30	There are gas stations adjacent to the drainage area but they do not appear to drain to the site. The site is adjacent to an existing bus stop and sidewalk (each may require relocation) and in front of a commercial business. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. This area may be designated for roadway improvements per PG8535177 (MDOT SHA District 3).
WAS-0333	Future Phase	02070010	SWM Facility - Ch 5	0.54	0.36	Site adjacent to a noise barrier wall. Access may be an issue for the existing CMP that will need to be lowered and replaced to daylight an underdrain. The northern embankment would be placed as fill against the existing noise barrier wall.
WAS-0334	Future Phase	02070010	SWM Facility - Ch 5	0.89	0.34	Site within median area between ramps.
WAS-0340	Future Phase	02070010	SWM Facility - Ch 5	1.01	0.34	There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. It appears the facility would need to be raised/fill used to be able to outfall an underdrain, which may impact private property. This area may be designated for structure construction per XY5165177-BA (MDOT SHA District 3).
WAS-0342	Future Phase	02070010	SWM Facility - Ch 5	0.67	0.83	Unobstructed on south side of the median with w beam on the north side. No scuppers were observed on the overpass to the west. The eastern portion of the LOD is not wide enough to provide a SWM facility due to the elevation difference between the existing edge of pavements.
WAS-0343	Future Phase	02070010	SWM Facility - Ch 3	3.35	1.88	Site previously identified during TMDL efforts as PG-MP-0162. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. NPDES database shown does not match field conditions (drainage structures and associated systems not shown).

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-0345	Future Phase	02070010	SWM Facility - Ch 5	0.41	0.37	The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. A northern embankment may need to be placed in fill to provide a SWM facility. This area may be designated for roadway improvements per XY2295B77 (MDOT SHA District 3).
WAS-0346	Future Phase	02070010	SWM Facility - Ch 3	2.08	1.07	The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. Site previously identified during TMDL efforts as PG-MP-1042. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential outfall tie in at existing downstream inlet. This area may be designated for commercial construction per 18appg03320 (AutoZone #6477) (MDOT SHA District 3).
WAS-0347	Future Phase	02070010	SWM Facility - Ch 5	0.51	0.19	Site previously identified during TMDL efforts as PG-MP-0149. The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. This area may be designated for roadway improvements per XY2295B77 (MDOT SHA District 3).
WAS-0348	Future Phase	02070010	SWM Facility - Ch 5	0.26	0.15	Site previously identified during TMDL efforts as PG-MP-0150. The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-0606	Future Phase	02070010	SWM Facility - Ch 5	0.55	0.28	Potential to outfall toward concrete channel. NPDES database shown does not match field conditions (drainage structures not shown).
WAS-0610	Future Phase	02070010	SWM Facility - Ch 5	1.15	0.15	There is potential to place a bioretention facility as this location and direct additional untreated SHA impervious area to this location. Further investigation is needed regarding the existing storm system at the southwest corner of the site. Verification that there is not an existing underground facility at this location needs to occur prior to exploring a bioretention.
WAS-0614	Future Phase	02070010	SWM Facility - Ch 5	0.67	0.24	Site previously identified during TMDL efforts as PG-DBT-1197. Potential tie-in to private storm drain manhole (not shown in NPDES storm drain data). A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-0615	Future Phase	02070010	SWM Facility - Ch 5	0.21	0.33	Site previously identified during TMDL efforts as PGGr2-JMT-036. The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Existing commercial electric sign within LOD. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. Potential to lower downstream structures for underdrain tie in. This area may be designated for commercial construction per 18appg03320 (AutoZone #6477) (MDOT SHA District 3).
WAS-0616	Future Phase	02070010	SWM Facility - Ch 5	0.32	0.19	Site previously identified during TMDL efforts as PGGr2-JMT-033. The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential for an underdrain to tie into the existing storm drain. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. There is an elevation difference of from the existing curb to the existing sidewalk.
WAS-0617	Future Phase	02070010	SWM Facility - Ch 5	0.21	0.18	Site previously identified during TMDL efforts as PG-DBT-1178. The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. A metro bus stop is present at the site. Potential to tie into existing storm drain. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-0623	Future Phase	02070010	SWM Facility - Ch 3	0.54	0.51	A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-0624	Future Phase	02070010	Pavement Removal	0.48	0.15	Site previously identified during TMDL efforts as PG-DBT-1198. Potential pavement removal. This area may be designated for roadway improvements per XX1315B77 (MDOT SHA District 3).
WAS-0625	Future Phase	02070010	SWM Facility - Ch 5	0.61	0.38	Site may require significant cut and removal of existing asphalt.
WAS-0626	Future Phase	02070010	SWM Facility - Ch 5	0.18	0.12	Potential to lower existing storm drain structures for underdrain tie in. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-0627	Future Phase	02070010	SWM Facility - Ch 5	0.18	0.11	There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-0628	Future Phase	02070010	SWM Facility - Ch 5	0.37	0.39	A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-0634	Future Phase	02070010	Pavement Removal	0.14	0.04	Pavement Removal.
WAS-0638	Future Phase	02070010	SWM Facility - Ch 3	0.89	0.86	A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. This area may be designated for unknown improvements per MD 5 from US 301 to I-95 Project Planning, Active (MP 2.68 to MP 11.95). No contract number available. (MDOT SHA District 3).
WAS-0641	Future Phase	02070010	SWM Facility - Ch 5	0.61	0.25	Site previously identified during TMDL efforts as PG-MP-0195. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
WAS-0644	Future Phase	02070010	SWM Facility - Ch 5	0.88	0.24	Site previously identified during TMDL efforts as PG-DBT-1194. Existing storm drain structure under road may need to be replaced and lowered.
WAS-0647	Future Phase	02070010	SWM Facility - Ch 3	0.48	0.83	Existing W-beam traffic barrier posts may conflict with SWM facility.
WAS-0649	Future Phase	02070010	SWM Facility - Ch 3	0.82	0.63	A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. Existing W-beam traffic barrier posts may conflict with SWM facility. This area may be designated for unknown improvements per 17APPG01518 (MDOT SHA District 3).
WAS-0650	Future Phase	02070010	SWM Facility - Ch 3	1.15	1.29	Guard rail present. Existing W-beam traffic barrier posts may conflict with SWM facility. This area may be designated for unknown improvements per 17APPG01518 (MDOT SHA District 3).
WAS-0651	Future Phase	02070010	SWM Facility - Ch 3	0.67	0.62	A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
WAS-0652	Future Phase	02070010	SWM Facility - Ch 3	1.92	0.71	Site previously identified during TMDL efforts as PG-MP-0192. Sewer present on site, Existing side slopes greater than 15%. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Significant earthwork required and if a filter media were placed, it would appear to have to be placed as fill. This area may be designated for unknown improvements per MD 5 from US 301 to I-95 Project Planning, Active(MP 2.68 to MP 11.95). o contract number available. (MDOT SHA District 3).
WAS-0901	Future Phase	02070010	SWM Facility - Ch 5	0.52	0.65	Dense trees and steep slopes at north end of the site. Potential outfall to existing channel.
WAS-0903	Future Phase	02070010	SWM Facility - Ch 5	0.97	0.34	Potential to outfall to existing stream.
WAS-0905	Future Phase	02070010	SWM Facility - Ch 5	0.82	0.28	A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-0906	Future Phase	02070010	SWM Facility - Ch 5	0.84	0.23	A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-0911	Future Phase	02070010	SWM Facility - Ch 5	0.45	0.22	Existing storm drain (not in NPDES database) located in field south of site. NPDES database shown does not match field conditions (drainage structures are not shown). There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-0913	Future Phase	02070010	SWM Facility - Ch 5	0.43	0.21	Along open space of southbound Indian Head Highway south of intersection with Old Fort Road.
WAS-0918	Future Phase	02070010	SWM Facility - Ch 5	0.63	0.39	Site previously identified during TMDL efforts as PG-MP-0200.
WAS-0922	Future Phase	02070010	SWM Facility - Ch 5	0.27	0.32	Adjacent to a car wash and a bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
WAS-0923	Future Phase	02070010	SWM Facility - Ch 3	0.40	0.51	Site previously identified during TMDL efforts as PG-MP-0209. Potential to tie into existing storm system.
WAS-0925	Future Phase	02070010	SWM Facility - Ch 5	0.21	0.23	Potential to convert existing storm drain manhole (not shown in NPDES database) into a riser structure. NPDES database shown does not match field conditions (drainage structures not shown).
WAS-0929	Future Phase	02070010	SWM Facility - Ch 5	0.14	0.08	Potential outfall tie in at existing downstream inlet.
WAS-0932	Future Phase	02070010	SWM Facility - Ch 5	1.43	1.42	Site previously identified during TMDL efforts as PG-MP-0221. Potential outfall tie in at existing downstream inlet. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
WAS-0933	Future Phase	02070010	SWM Facility - Ch 5	0.43	0.34	Site previously identified during TMDL efforts as PG-DBT-1220. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
WAS-0934	Future Phase	02070010	SWM Facility - Ch 5	0.30	0.24	A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
WAS-0937	Future Phase	02070010	SWM Facility - Ch 5	0.27	0.43	Potential to tie into existing storm drain. Near a gas station and commercial property. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. Moderate hazardous materials concerns (if groundwater contamination is identified within LOD, see HAZMAT comments) which are being considered to have little to no risk to SWM BMP functionality with the use of industry standard protection measures in design and during construction.
WAS-0938			SWM Facility - Ch 5	0.15	0.09	Site is in front of private property. It appears there will be a need to build an embankment on the south side of the site. This area may be designated for unknown improvements per 15appg02118 (Braemar) (MDOT SHA District 3).
WAS-0939	Future Phase	02070010	SWM Facility - Ch 5	0.15	0.16	Site previously identified during TMDL efforts as PG-MP-0222. Potential that GIS ROW is incorrect and is along the fence. It appears there will be a need for embankment construction.
WAS-0946	Future Phase	02070010	SWM Facility - Ch 3	0.50	0.47	Guard rail present.
WAS-0957	Future Phase	02070010	SWM Facility - Ch 5	0.62	0.34	The site appears to be within the "BMP Drainage Area" layer (which is within the "MDE StormwaterPrint/SWP 2017" layer). Additional investigation is required to verify the impervious area to the proposed site is not being treated for quality by the previously mentioned "MDE StormwaterPrint/SWP 2017" layer. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. This area may be designated for roadway improvements per US 301 from Westwood Drive to S Osborne Rd (MDOT SHA District 3).
WAS-0968	Future Phase	02070010	SWM Facility - Ch 5	2.14	1.07	Site previously identified during TMDL efforts as PGGR1-GRSW-1042. Potential to outfall to existing storm drain. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
WAS-0969	Future Phase	02070010	SWM Facility - Ch 5	0.54	0.27	Site previously identified during TMDL efforts as PGGR1-GRSW-1043. Potential to outfall to existing storm drain. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
WAS-0971	Future Phase	02070010	SWM Facility - Ch 5	1.23	0.93	Site previously identified during TMDL efforts as PGGR1-GRSW-1045. Potential outfall tie in at existing downstream inlet. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-0972	Future Phase	02070010	SWM Facility - Ch 5	0.53	0.27	Site previously identified during TMDL efforts as PG-MP-0208. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. Potential to outfall to existing culvert.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-0975	Future Phase	02070010	SWM Facility - Ch 5	0.35	0.23	There appears to be a large offsite area flowing to the site. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-0979	Future Phase	02070010	SWM Facility - Ch 5	0.24	0.26	There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. Potential outfall tie in at existing downstream inlet (not shown in NPDES data). NPDES database shown does not match field conditions (drainage structures not shown). This area may be designated for commercial construction per 16APPG01519 (MDOT SHA District 3).
WAS-0980	Future Phase	02070010	SWM Facility - Ch 5	0.35	0.11	Adjacent to residential property. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-0984	Future Phase	02070010	SWM Facility - Ch 5	0.98	0.76	Existing inlet and outgoing pipe may need to be replaced and lowered to outfall an underdrain. This area may be designated for commercial construction per 16APPG01519 (MDOT SHA District 3).
WAS-0985	Future Phase	02070010	SWM Facility - Ch 5	1.10	0.53	Site previously identified during TMDL efforts as PG-MP-1044. Existing inlet and outgoing pipe may need to be replaced and lowered to outfall an underdrain. This area may be designated for commercial construction per 16APPG01519 (MDOT SHA District 3).
WAS-0987	Future Phase	02070010	SWM Facility - Ch 5	0.81	0.64	Site previously identified during TMDL efforts as PG-MP-0202. Potential to daylight underdrain/outfall within the existing ditch. Existing inlet and outgoing pipe may need to be replaced and lowered to outfall an underdrain. This area may be designated for unknown improvements per MD 5 from US 301 to I-95 Project Planning, Active(MP 2.68 to MP 11.95) (MDOT SHA District 3).
WAS-0988	Future Phase	02070010	SWM Facility - Ch 5	0.70	0.33	A new road sign installed at the center of the swale and may need to be relocated. Potential to outfall to existing stream. There is a severe (2'-4' deep) erosion area where the existing swale reaches the embankment at the bridge abutment. This area may be designated for unknown improvements per MD 5 from US 301 to I-95 Project Planning, Active (MP 2.68 to MP 11.95) (MDOT SHA District 3).
WAS-0989	Future Phase	02070010	SWM Facility - Ch 3	1.51	0.52	Existing sign with concrete foundations at site. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. This area may be designated for unknown improvements per MD 5 from US 301 to I-95 Project Planning, Active MP 2.68 to MP 11.95) (MDOT SHA District 3).
WAS-0990	Future Phase	02070010	SWM Facility - Ch 3	1.62	0.64	The eastern median embankment has steep side slopes. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. This area may be designated for unknown improvements per MD 5 from US 301 to I-95 Project Planning, Active (MP 2.68 to MP 11.95) (MDOT SHA District 3).
WAS-0992	Future Phase	02070010	SWM Facility - Ch 5	0.78	0.36	Site previously identified during TMDL efforts as PG-MP-1050. Steep side slopes present. The site is adjacent to a church/school. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. This area may be designated for roadway improvements per PG6265176 (MDOT SHA District 3).
WAS-0995	Future Phase	02070010	SWM Facility - Ch 5	0.66	0.42	There is an existing storm drain system within the site that may need to be relocated. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. The existing gravel shoulder along the service road likely need to be impacted/shortened (note, there are several signs along the gravel shoulder stating "no parking"). The facility will be limited by how much depth can be created (by cutting into the southeastern embankment/gravel shoulder). Potential to tie into existing manhole. Moderate hazardous materials concerns (if groundwater contamination is identified within LOD, see HAZMAT comments) which are being considered to have little to no risk to SWM BMP functionality with the use of industry standard protection measures in design and during construction.
WAS-0996	Future Phase	02070010	SWM Facility - Ch 5	0.43	0.14	There appears to be fencing within the ROW which would likely need to be relocated in order to construct a BMP. A bypass system may be required to divert existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
WAS-0999	Future Phase	02070010	SWM Facility - Ch 5	0.32	0.11	Site lacks the vertical fall to daylight and underdrain.
WAS-1000	Future Phase	02070010	SWM Facility - Ch 5	0.65	0.37	Not part of SHA ROW but within State-owned property. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-1001	Future Phase	02070010	SWM Facility - Ch 3	4.54	2.54	Not part of SHA ROW but within State-owned property. Potential to outfall to the woods. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-1002	Future Phase	02070010	SWM Facility - Ch 3	1.40	1.59	Not part of SHA ROW but within State-owned property. Potential outfall tie in at existing downstream inlet. There is a pond with a riser downstream of the site which the proposed site may drain to. It will need to be verified that the area is not already being treated and the downstream pond is for water quantity and not water quality treatment.
WAS-1003	Future Phase	02070010	SWM Facility - Ch 3	1.36	0.88	The GIS ROW may be incorrect. The ROW (in the field) appears to be at the existing fence line. Portions of the existing embankment have steep slopes. Additionally, the adjacent privately owned tree farm would likely be impacted significantly. A bypass system may be required to divert drainage from offsite area. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-1004	Future Phase	02070010	SWM Facility - Ch 3	0.80	0.59	Potential to outfall to an existing storm drain system. The existing W beam posts may conflict with a SWM facility. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-1005	Future Phase	02070010	SWM Facility - Ch 3	0.34	1.24	There is potential to lower the existing storm drain system to provide an outfall. The existing W beam posts may conflict with a SWM facility. There appears to be potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-1006	Future Phase	02070010	SWM Facility - Ch 3	0.75	0.48	Potential to replace and lower the existing storm drain system to provide an outfall. The existing W beam posts may conflict with a SWM facility.
WAS-1007	Future Phase	02070010	SWM Facility - Ch 3	1.75	0.60	There is potential to lower the existing storm drain system to provide an outfall. The existing W beam posts may conflict with a SWM facility. An adjacent berm/ditch may need to be constructed within the embankment upstream of the proposed site to bypass offsite drainage.
WAS-1009	Future Phase	02070010	SWM Facility - Ch 3	0.86	0.91	The existing storm drain outfall has failed and will require replacement. This area may be designated for structure construction per XY5165177-BA (MDOT SHA District 3).
WAS-1010	Future Phase	02070010	SWM Facility - Ch 3	0.54	0.34	The existing W beam posts may conflict with a SWM facility. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. Potential to replace and lower the existing storm drain system to provide an outfall.
WAS-1011	Future Phase	02070010	SWM Facility - Ch 3	0.69	0.59	The existing W beam posts may conflict with a SWM facility. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
WAS-2003	Future Phase	02070010	SWM Facility - Ch 5	0.44	0.46	Existing open space along highway, adjacent to apartment complex. Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2004	Future Phase	02070010	SWM Facility - Ch 5	0.50	0.29	Existing open space along highway, adjacent to apartment complex. Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2010	Future Phase	02070010	SWM Facility - Ch 3	1.18	1.48	Existing open space along highway, adjacent to MDOT SHA District 3 Office. Open and curbed section roadway. Coordination with District 3 pending/active projects would be warranted. Potential to bypass offsite flow from Turner Ln. Record of HAZMAT spills has potential to impact groundwater and pollute flow within proximity to SWM facility.
WAS-2012	Future Phase	02070010	SWM Facility - Ch 3	1.05	0.70	Existing open space along highway. Open section roadway. Coordination with District 3 pending/active projects would be warranted. Potential to connect SWM outfall to existing STORMDRAIN.
WAS-2016	Future Phase	02070010	SWM Facility - Ch 5	1.16	0.66	Existing open space, linear, along highway. Existing sidewalk and curb/gutter roadway section. Coordination with District 3 pending or active projects would be warranted. Potential to require multiple ESTORMDRAIN facilities for contributing DA requirement. Potential for ESTORMDRAIN outlet to discharge to ditch. Potential to manage bypass or diversion of offsite runoff.
WAS-2018	Future Phase	02070010	SWM Facility - Ch 5	0.88	0.49	Existing open space along curvilinear ramp. Curbed roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Record of HAZMAT spills has potential to impact groundwater and pollute flow within proximity to SWM.
WAS-2019	Future Phase	02070010	SWM Facility - Ch 5	1.11	0.36	Existing open space, linear, along highway. Curbed roadway section. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2022	Future Phase	02070010	SWM Facility - Ch 5	0.08	0.12	Existing sidewalk and curb/gutter roadway section. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN. Record of HAZMAT spills has potential to impact groundwater and pollute flow within proximity to SWM facility.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-2023	Future Phase	02070010	SWM Facility - Ch 5	0.13	0.28	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2024	Future Phase	02070010	SWM Facility - Ch 5	0.17	0.17	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2025	Future Phase	02070010	SWM Facility - Ch 5	0.20	0.23	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2026	Future Phase	02070010	SWM Facility - Ch 5	0.12	0.29	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2027	Future Phase	02070010	SWM Facility - Ch 5	0.41	0.28	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2028	Future Phase	02070010	SWM Facility - Ch 5	0.24	0.35	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2029	Future Phase	02070010	SWM Facility - Ch 5	0.27	0.29	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2030	Future Phase	02070010	SWM Facility - Ch 5	0.19	0.31	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2032	Future Phase	02070010	SWM Facility - Ch 5	0.17	0.24	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2033	Future Phase	02070010	SWM Facility - Ch 5	0.08	0.63	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN. Potential to manage bypass or diversion of offsite runoff from Pizza Hut to minimize SWM requirements.
WAS-2034	Future Phase	02070010	SWM Facility - Ch 5	0.34	0.63	Existing sidewalk and curb/gutter roadway section. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2035	Future Phase	02070010	SWM Facility - Ch 5	0.09	0.12	Existing sidewalk and curb/gutter roadway section. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN. Record of HAZMAT spills has potential to impact groundwater and pollute flow within proximity to SWM.
WAS-2036	Future Phase	02070010	SWM Facility - Ch 5	0.09	0.17	Existing sidewalk and curb/gutter roadway section. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN. Record of HAZMAT spills has potential to impact groundwater and pollute flow within proximity to SWM.
WAS-2037	Future Phase	02070010	SWM Facility - Ch 5	0.09	0.26	Existing sidewalk and curb/gutter roadway section. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN. Record of HAZMAT spills has potential to impact groundwater and pollute flow within proximity to SWM.
WAS-2038	Future Phase	02070010	SWM Facility - Ch 5	0.50	0.61	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2039	Future Phase	02070010	SWM Facility - Ch 5	1.13	0.96	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2040	Future Phase	02070010	SWM Facility - Ch 5	0.46	0.34	Existing sidewalk and curb/gutter roadway section along median. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN. Potential to require new STORMDRAIN.
WAS-2041	Future Phase	02070010	SWM Facility - Ch 5	0.62	0.23	Existing sidewalk and curb/gutter roadway section along median. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN. Potential to manage bypass or diversion of offsite runoff and require new STORMDRAIN.
WAS-2042	Future Phase	02070010	SWM Facility - Ch 5	0.68	0.35	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN. Potential to manage bypass or diversion of offsite runoff and require new STORMDRAIN. Record of HAZMAT spills has potential to impact groundwater and pollute flow within proximity to SWM.
WAS-2043	Future Phase	02070010	SWM Facility - Ch 5	0.69	0.50	Existing sidewalk and curb/gutter roadway section along median. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN. Potential to manage bypass or diversion of offsite runoff and require new STORMDRAIN. Record of HAZMAT spills has potential to impact groundwater and pollute flow within proximity to SWM.
WAS-2044	Future Phase	02070010	SWM Facility - Ch 5	0.61	0.28	Existing sidewalk and curb/gutter roadway section along median. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN. Potential to manage bypass or diversion of offsite runoff.
WAS-2048	Future Phase	02070010	SWM Facility - Ch 5	0.77	1.13	Existing sidewalk and curb/gutter roadway section along median. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-2050	Future Phase	02070010	SWM Facility - Ch 3	0.41	1.15	Existing sidewalk and curb/gutter roadway section. Steep, short slope off the back of sidewalk. Potential for concrete channel removal. Potential to manage bypass or diversion of offsite runoff.
WAS-2051	Future Phase	02070010	SWM Facility - Ch 5	0.89	0.93	Existing sidewalk and curb/gutter roadway section along median. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN.
WAS-2056	Future Phase	02070010	SWM Facility - Ch 5	0.60	0.49	Existing sidewalk and curb/gutter roadway section. State-owned property. Potential for concrete channel removal. Potential to manage bypass or diversion of offsite runoff and a new STORMDRAIN connection from facility outlet to existing STORMDRAIN.
WAS-2057	Future Phase	02070010	SWM Facility - Ch 5	0.73	0.45	Existing open space along highway. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential for ESTORMDRAIN outlets to discharge to ditch.
WAS-2059	Future Phase	02070010	SWM Facility - Ch 3	0.18	0.55	Existing sidewalk and curb/gutter roadway section. Potential to require new inflow STORMDRAIN inlet.
WAS-2062	Future Phase	02070010	SWM Facility - Ch 3	0.22	0.42	Existing sidewalk and curb/gutter roadway section. Potential to require new inflow STORMDRAIN inlet. Potential to connect SWM outfall to existing STORMDRAIN.
WAS-2063	Future Phase	02070010	SWM Facility - Ch 3	0.23	0.45	Existing sidewalk and curb/gutter roadway section. Coordination with District 3 pending or active projects would be warranted. Potential to require new inflow STORMDRAIN inlet. Potential to connect SWM outfall to existing STORMDRAIN.
WAS-2064	Future Phase	02070010	SWM Facility - Ch 3	0.31	0.88	Existing sidewalk and curb/gutter roadway section. Potential to connect SWM outfall to existing STORMDRAIN. Record of HAZMAT spills has potential to impact groundwater and pollute flow within proximity to SWM.
WAS-2066	Future Phase	02070010	SWM Facility - Ch 5	0.32	0.67	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential to connect ESTORMDRAIN outfall to existing STORMDRAIN. Record of HAZMAT spills has potential to impact groundwater and pollute flow within proximity to SWM.
WAS-2067	Future Phase	02070010	SWM Facility - Ch 5	0.26	0.27	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential for new STORMDRAIN required. Along railroad, confirm not within allowable railroad horizontal clearance limits for impacts.
WAS-2068	Future Phase	02070010	SWM Facility - Ch 5	0.36	0.18	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential for new STORMDRAIN required. Along railroad, confirm not within allowable railroad horizontal clearance limits for impacts.
WAS-2069	Future Phase	02070010	SWM Facility - Ch 5	0.22	0.17	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential for new STORMDRAIN required. Along railroad, confirm not within allowable railroad horizontal clearance limits for impacts.
WAS-2070	Future Phase	02070010	SWM Facility - Ch 5	0.32	0.22	Existing sidewalk and curb/gutter roadway section. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. Potential for new STORMDRAIN required. Along railroad, confirm not within allowable railroad horizontal clearance limits for impacts.
WAS-2071	Future Phase	02070010	SWM Facility - Ch 5	0.12	0.09	Existing sidewalk and curb/gutter roadway section. Potential for new STORMDRAIN required. Along railroad, confirm not within allowable railroad horizontal clearance limits for impacts.
WAS-2072	Future Phase	02070010	SWM Facility - Ch 3	0.27	1.08	Existing sidewalk and curb/gutter roadway section. Coordination with District 3 pending or active projects would be warranted. Potential to require new inflow STORMDRAIN inlet.
WAS-2073	Future Phase	02070010	SWM Facility - Ch 3	0.65	0.48	Existing curb/gutter roadway section along median. Potential to manage bypass or diversion of offsite runoff from nearby apartment parking lot.
WAS-2074	Future Phase	02070010	SWM Facility - Ch 3	0.69	0.80	Existing sidewalk and curb/gutter roadway section. Potential to locate BMP in parking lot with excess spaces. Potential ROW acquisition necessary with offline facility. Potential to manage bypass or diversion of offsite runoff from parking lot of adjacent Defense Shopping Center.
WAS-2075	Future Phase	02070010	SWM Facility - Ch 5	0.72	0.34	Existing sidewalk and curb/gutter roadway section along open space. Potential to manage bypass or diversion of offsite runoff.
WAS-2076	Future Phase	02070010	SWM Facility - Ch 5	0.55	0.45	Existing open space along highway. Coordination with District 3 pending or active projects would be warranted. Potential for multiple ESTORMDRAIN facilities for contributing DA requirement. ESTORMDRAIN outlet to ditch/outfall appears feasible.
WAS-2078	Future Phase	02070010	SWM Facility - Ch 3	0.29	1.51	Existing sidewalk and curb/gutter roadway section. Potential to connect SWM outfall to existing STORMDRAIN. Potential to require new inflow STORMDRAIN inlet. Record of HAZMAT spills has potential to impact groundwater and pollute flow within proximity to SWM.
WAS-2079	Future Phase	02070010	SWM Facility - Ch 3	1.09	1.10	Existing open space along highway. SWM outlet to ditch/outfall appears feasible.
WAS-2501	Future Phase	02070010	SWM Facility - Ch 5	0.31	0.48	Existing open space in median with guard rail. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. This area may be designated for Birmingham Manor project per MDOT SHA D3 Contract 20APMO02321.
WAS-2502	Future Phase	02070010	SWM Facility - Ch 3	1.60	0.96	Existing curb with open space. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-2503	Future Phase	02070010	SWM Facility - Ch 5	0.07	0.17	Existing open space near roadway with curb. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-2504	Future Phase	02070010	SWM Facility - Ch 5	0.46	0.41	Existing open space near roadway. Outfall into existing ditch.
WAS-2505	Future Phase	02070010	SWM Facility - Ch 5	0.16	0.30	Coordinate with MNCPPC about available space for potential SWM site near Hillandale Park. Existing open space behind sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2506	Future Phase	02070010	SWM Facility - Ch 5	0.33	0.29	Coordinate with MNCPPC about available space for potential SWM site near Hillandale Park. Existing open space behind sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2507	Future Phase	02070010	SWM Facility - Ch 5	0.18	0.26	Existing open space behind sidewalk near school property. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2508	Future Phase	02070010	SWM Facility - Ch 5	0.09	0.19	Existing open space behind sidewalk near school property. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2509	Future Phase	02070010	SWM Facility - Ch 5	0.06	0.17	Existing open space behind sidewalk near school property. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2510	Future Phase	02070010	SWM Facility - Ch 5	0.16	0.39	Existing open space behind sidewalk near school property. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2511	Future Phase	02070010	SWM Facility - Ch 5	0.15	0.20	Existing open space behind sidewalk near residential area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2512	Future Phase	02070010	SWM Facility - Ch 5	0.07	0.35	Existing open space behind sidewalk near residential area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2513	Future Phase	02070010	SWM Facility - Ch 3	0.53	0.29	Existing open space behind sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2514	Future Phase	02070010	SWM Facility - Ch 5	0.80	0.39	Existing open space near roadway with guardrail. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential to outfall into existing adjacent ditch.
WAS-2515	Future Phase	02070010	SWM Facility - Ch 5	0.41	0.52	Existing open space near roadway. Potential outfall into existing ditch.
WAS-2518	Future Phase	02070010	SWM Facility - Ch 5	0.26	0.50	Existing open space near roadway. Potential extend facility and outfall into existing ditch to maximized impervious area treated.
WAS-2519	Future Phase	02070010	SWM Facility - Ch 5	0.66	0.39	Existing open space near roadway with guard rail. Potential outfall into existing ditch. Multiple facilities may be anticipated due to DA size.
WAS-2520	Future Phase	02070010	SWM Facility - Ch 5	0.60	0.63	Existing open space near roadway with guard rail and light pole. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Multiple facilities may be anticipated due to DA size.
WAS-2522	Future Phase	02070010	SWM Facility - Ch 5	0.87	0.77	Existing open space in median with guard rail. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Multiple facilities may be anticipated due to DA size.
WAS-2525	Future Phase	02070010	SWM Facility - Ch 5	0.50	0.49	Existing open space near roadway. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Multiple facilities may be anticipated due to DA size.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-2526	Future Phase	02070010	SWM Facility - Ch 3	0.43	0.31	Existing open space behind sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2527	Future Phase	02070010	SWM Facility - Ch 5	0.10	0.36	Existing open space behind sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2528	Future Phase	02070010	SWM Facility - Ch 5	0.06	0.21	Existing open space behind sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2529	Future Phase	02070010	SWM Facility - Ch 3	0.25	0.39	Existing open space behind sidewalk near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk. Multiple facilities may be anticipated due to DA size.
WAS-2530	Future Phase	02070010	SWM Facility - Ch 5	0.47	0.23	Existing open space behind sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2531	Future Phase	02070010	SWM Facility - Ch 5	0.10	0.20	Existing open space behind sidewalk near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2532	Future Phase	02070010	SWM Facility - Ch 5	0.15	0.18	Existing open space behind sidewalk near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2533	Future Phase	02070010	SWM Facility - Ch 5	0.53	0.17	Existing open space near roadway and sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2534	Future Phase	02070010	SWM Facility - Ch 5	0.12	0.13	Existing open space near roadway. Potential outfall at existing downstream end section.
WAS-2535	Future Phase	02070010	SWM Facility - Ch 5	0.09	0.10	Existing open space near residential area. Potential outfall at existing end section. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-2536	Future Phase	02070010	SWM Facility - Ch 5	0.72	0.26	Existing open space near roadway. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-2537	Future Phase	02070010	SWM Facility - Ch 5	0.22	0.25	Existing open space in median with curb. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-2538	Future Phase	02070010	SWM Facility - Ch 5	0.17	0.22	Existing open space in median with curb. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-2539	Future Phase	02070010	SWM Facility - Ch 5	0.19	0.30	Existing open space near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. This area may be designated for resurfacing project per MDOT SHA D3 Contract PG8515177
WAS-2540	Future Phase	02070010	SWM Facility - Ch 5	0.80	0.41	Existing open space in median with guard rail. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-2541	Future Phase	02070010	SWM Facility - Ch 5	1.01	0.68	Existing open space in median with guard rail. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. Multiple facilities may be anticipated due to DA size.
WAS-2542	Future Phase	02070010	SWM Facility - Ch 5	0.64	0.58	Existing open space in median with guard rail. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
WAS-2543	Future Phase	02070010	SWM Facility - Ch 5	1.39	0.50	Existing open space in median with guard rail. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. Multiple facilities may be anticipated due to DA size.
WAS-2548	Future Phase	02070010	SWM Facility - Ch 5	0.99	0.57	Existing open space near roadway. Potential outfall into existing ditch.
WAS-2549	Future Phase	02070010	SWM Facility - Ch 5	0.74	0.25	Existing open space in median with guard rail. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
WAS-2551	Future Phase	02070010	SWM Facility - Ch 5	1.04	0.11	Existing open space in median with guard rail. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-2553	Future Phase	02070010	SWM Facility - Ch 5	0.71	0.19	Existing open space near roadway with guard rail and light pole. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-2554	Future Phase	02070010	SWM Facility - Ch 3	1.54	0.92	Existing vegetated space near roadway. Potential removal of trees along existing embankment. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-2555	Future Phase	02070010	SWM Facility - Ch 5	0.45	0.13	Existing open space near roadway. Potential outfall into existing ditch.
WAS-2556	Future Phase	02070010	SWM Facility - Ch 5	0.80	0.27	Existing open space near roadway. Potential outfall into existing ditch.
WAS-2557	Future Phase	02070010	SWM Facility - Ch 5	0.36	0.12	Existing open space near roadway. Potential outfall into existing ditch.
WAS-2558	Future Phase	02070010	SWM Facility - Ch 5	0.42	0.18	Limited existing open space near roadway with steep back slope. Potential outfall into existing ditch.
WAS-2559	Future Phase	02070010	SWM Facility - Ch 5	0.08	0.27	Existing open space behind sidewalk near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-2560	Future Phase	02070010	SWM Facility - Ch 5	0.16	0.16	Existing open space behind sidewalk near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. This area may be designated for resurfacing project per MDOT SHA D3 Contract PG8515177.
WAS-2562	Future Phase	02070010	SWM Facility - Ch 5	0.40	0.37	Existing open space near roadway. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-2564	Future Phase	02070010	SWM Facility - Ch 5	0.12	0.17	Existing open space near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk. This area may be designated for resurfacing project per MDOT SHA D3 Contract PG8515177.
WAS-2565	Future Phase	02070010	SWM Facility - Ch 5	0.31	0.28	Existing open space near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk. This area may be designated for resurfacing project per MDOT SHA D3 Contract PG8515177.
WAS-2567	Future Phase	02070010	SWM Facility - Ch 5	0.08	0.33	Existing open space near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk. This area may be designated for resurfacing project per MDOT SHA D3 Contract PG8515177.
WAS-2568	Future Phase	02070010	SWM Facility - Ch 5	0.30	0.20	Existing open space near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2569	Future Phase	02070010	SWM Facility - Ch 5	0.14	0.32	Existing landscaping near commercial property may be impacted. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-2571	Future Phase	02070010	SWM Facility - Ch 5	0.08	0.34	Existing open space near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Multiple facilities may be anticipated due to DA size.
WAS-2572	Future Phase	02070010	SWM Facility - Ch 5	0.15	0.22	Existing open space near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-2573	Future Phase	02070010	SWM Facility - Ch 5	0.18	0.20	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2574	Future Phase	02070010	SWM Facility - Ch 5	0.07	0.22	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2575	Future Phase	02070010	SWM Facility - Ch 5	0.12	0.24	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-2576	Future Phase	02070010	SWM Facility - Ch 5	0.11	0.14	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2577	Future Phase	02070010	SWM Facility - Ch 5	0.10	0.12	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2578	Future Phase	02070010	SWM Facility - Ch 5	0.10	0.12	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2579	Future Phase	02070010	SWM Facility - Ch 5	0.12	0.17	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk. Multiple facilities may be anticipated due to DA size.
WAS-2580	Future Phase	02070010	SWM Facility - Ch 5	0.17	0.20	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk. Multiple facilities may be anticipated due to DA size.
WAS-2581	Future Phase	02070010	SWM Facility - Ch 5	0.16	0.13	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2582	Future Phase	02070010	SWM Facility - Ch 5	0.12	0.14	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-2583	Future Phase	02070010	SWM Facility - Ch 5	0.12	0.12	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-2584	Future Phase	02070010	SWM Facility - Ch 5	0.13	0.17	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-2585	Future Phase	02070010	SWM Facility - Ch 5	0.12	0.12	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-2586	Future Phase	02070010	SWM Facility - Ch 5	0.10	0.17	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-2587	Future Phase	02070010	SWM Facility - Ch 5	0.11	0.15	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-2588	Future Phase	02070010	SWM Facility - Ch 5	0.11	0.14	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2589	Future Phase	02070010	SWM Facility - Ch 5	0.11	0.12	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-2590	Future Phase	02070010	SWM Facility - Ch 5	0.11	0.14	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2591	Future Phase	02070010	SWM Facility - Ch 5	0.12	0.15	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2592	Future Phase	02070010	SWM Facility - Ch 5	0.09	0.11	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2593	Future Phase	02070010	SWM Facility - Ch 5	0.10	0.10	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2594	Future Phase	02070010	SWM Facility - Ch 5	0.16	0.15	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2595	Future Phase	02070010	SWM Facility - Ch 5	0.11	0.12	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2596	Future Phase	02070010	SWM Facility - Ch 3	0.45	0.46	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk. This area may be designated for maintenance project per MDOT SHA D3 Contract XY2295B77.
WAS-2599	Future Phase	02070010	SWM Facility - Ch 5	1.42	0.71	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-2600	Future Phase	02070010	SWM Facility - Ch 5	0.52	0.24	Existing open space behind curbed roadway section. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. This area may be designated for Georgia Avenue project per MDOT SHA D3 Contract 06APMO00712.
WAS-2601	Future Phase	02070010	SWM Facility - Ch 5	0.20	0.24	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2602	Future Phase	02070010	SWM Facility - Ch 5	0.08	0.52	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2603	Future Phase	02070010	SWM Facility - Ch 5	0.40	0.29	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-2604	Future Phase	02070010	SWM Facility - Ch 3	0.10	0.36	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2605	Future Phase	02070010	SWM Facility - Ch 5	0.42	0.24	Existing open space near roadway. Potential existing ditch outfall.
WAS-2606	Future Phase	02070010	SWM Facility - Ch 5	0.22	0.21	Existing open space behind curbed roadway section with existing sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2608	Future Phase	02070010	SWM Facility - Ch 5	0.61	0.71	Existing concrete channel in median with guard rail. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Multiple facilities may be anticipated due to DA size.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-2609	Future Phase	02070010	SWM Facility - Ch 5	0.68	0.73	Existing concrete channel in median with guard rail. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Multiple facilities may be anticipated due to DA size.
WAS-2610	Future Phase	02070010	SWM Facility - Ch 3	0.47	0.93	Existing riprap channel in median with guard rail. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-2611	Future Phase	02070010	SWM Facility - Ch 5	0.44	0.65	Existing concrete channel in median with guard rail. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-2612	Future Phase	02070010	SWM Facility - Ch 5	0.67	0.24	Existing open space behind curbed roadway section. Potential outfall into existing ditch/concrete channel.
WAS-2613	Future Phase	02070010	SWM Facility - Ch 3	0.43	0.36	Existing open space behind sidewalk. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. Potential adjustments to existing sidewalk.
WAS-2614	Future Phase	02070010	SWM Facility - Ch 3	0.43	0.88	Existing open space near roadway. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-2615	Future Phase	02070010	SWM Facility - Ch 5	0.41	0.27	Existing open space near roadway with guard rail and overhead sign. Potential outfall into existing channel.
WAS-3301	Phase 1 South	02070008	SWM Facility - Ch 5	0.15	0.13	Existing roadside open space with minimal vegetation.
WAS-3302	Phase 1 South	02070008	SWM Facility - Ch 5	0.15	0.06	Existing roadside open space with minimal vegetation.
WAS-3303	Phase 1 South	02070008	SWM Facility - Ch 5	0.28	0.15	Existing roadside grassy open space near residential property. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3305	Future Phase	02070010	SWM Facility - Ch 5	0.28	0.21	Existing roadside grassy open space near commercial area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3306	Future Phase	02070010	SWM Facility - Ch 5	0.85	0.38	Existing low open area near wooded area.
WAS-3307	Future Phase	02070010	SWM Facility - Ch 5	1.13	0.35	Existing vegetated area near residential area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. NPDES database shown does not match field conditions (drainage structures and associated systems not shown, in the incorrect location, or draining the wrong direction).
WAS-3308	Future Phase	02070010	SWM Facility - Ch 5	2.06	0.21	Existing grassy area near agricultural area.
WAS-3601	Future Phase	02070010	SWM Facility - Ch 5	0.25	0.51	Existing roadside open space near commercial property. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3602	Phase 1 South	02070008	SWM Facility - Ch 5	0.49	0.43	Existing roadside open space near residential property. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3603	Future Phase	02070010	SWM Facility - Ch 5	0.44	0.26	Existing roadside open space near school. NPDES database shown does not match field conditions (drainage structures and associated systems not shown). There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-3604	Future Phase	02070010	SWM Facility - Ch 5	0.36	0.46	Existing roadside grassy open space. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3606	Future Phase	02070010	SWM Facility - Ch 5	0.47	0.37	Existing roadside grassy open space near residential community. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3607	Future Phase	02070010	SWM Facility - Ch 5	0.62	0.32	Existing median grassy open space. NPDES database shown does not match field conditions (drainage structures and associated systems not shown).
WAS-3608	Phase 1 South	02070008	SWM Facility - Ch 3	0.34	0.75	Existing roadside grassy open space. A bypass system may be required to divert drainage from offsite area.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-3609	Future Phase	02070010	SWM Facility - Ch 5	0.35	0.14	Existing median grassy open space. NPDES database shown does not match field conditions (drainage structures and associated systems not shown). There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3611	Future Phase	02070010	SWM Facility - Ch 5	0.72	0.32	Existing median wooded open space. NPDES database shown does not match field conditions (drainage structures and associated systems not shown, in the incorrect location, or draining the wrong direction). There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3612	Future Phase	02070010	SWM Facility - Ch 3	0.29	0.74	Existing roadside grassy open space.
WAS-3613	Phase 1 South	02070008	SWM Facility - Ch 5	0.35	0.26	Existing roadside grassy open space. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3614	Phase 1 South	02070008	SWM Facility - Ch 5	0.28	0.14	Existing roadside grassy open space. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3615	Future Phase	02070010	SWM Facility - Ch 5	0.22	0.17	Existing roadside open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3616	Future Phase	02070010	SWM Facility - Ch 5	0.28	0.20	Existing roadside open space. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3617	Phase 1 South	02070008	SWM Facility - Ch 5	1.49	0.56	Existing roadside overgrown space. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility.
WAS-3618	Phase 1 South	02070008	SWM Facility - Ch 5	1.05	0.28	Existing median with vegetation. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility.
WAS-3619	Future Phase	02070010	SWM Facility - Ch 5	0.20	0.34	Existing roadside grassy open space. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and/or reduce the size of a proposed facility. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3621	Future Phase	02070010	SWM Facility - Ch 5	0.36	0.25	Existing roadside grassy open space. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3622	Phase 1 South	02070008	SWM Facility - Ch 3	0.89	0.67	Existing roadside grassy open space near commercial building. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3623	Phase 1 South	02070008	Pavement Removal	0.28	0.06	Existing pavement near residential area.
WAS-3625	Future Phase	02070010	SWM Facility - Ch 5	0.37	0.19	Existing roadside grassy open space. NPDES database shown does not match field conditions (drainage structures and associated systems not shown in the incorrect location, or draining the wrong direction). There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3626	Future Phase	02070010	SWM Facility - Ch 3	0.13	0.52	Existing median grassy open space. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3628	Future Phase	02070010	SWM Facility - Ch 3	0.29	0.78	Existing median grassy open space with landscaping trees. This area is located adjacent to and/or near MDOT SHA District D3 Access Permit 14APMO01518. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3629	Future Phase	02070010	SWM Facility - Ch 3	0.12	0.56	Existing median grassy open space. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3631	Future Phase	02070010	SWM Facility - Ch 3	0.25	1.41	Existing median grassy open space. This area is located adjacent to and/or near MDOT SHA District D3 Access Permit 13APMO00615. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3632	Future Phase	02070010	SWM Facility - Ch 3	0.16	0.26	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3633	Future Phase	02070010	SWM Facility - Ch 3	0.08	0.16	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3634	Future Phase	02070010	SWM Facility - Ch 3	0.16	0.48	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-3635	Future Phase	02070010	SWM Facility - Ch 3	0.12	0.31	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3636	Future Phase	02070010	SWM Facility - Ch 3	0.59	0.14	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3637	Future Phase	02070010	SWM Facility - Ch 3	0.27	0.15	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3638	Future Phase	02070010	SWM Facility - Ch 3	0.13	0.17	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3639	Future Phase	02070010	SWM Facility - Ch 3	0.28	0.38	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3640	Future Phase	02070010	SWM Facility - Ch 3	0.24	0.22	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3641	Future Phase	02070010	SWM Facility - Ch 3	0.37	0.22	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3644	Future Phase	02070010	SWM Facility - Ch 3	0.18	0.36	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3645	Future Phase	02070010	SWM Facility - Ch 3	0.25	0.37	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3646	Future Phase	02070010	SWM Facility - Ch 3	0.26	0.44	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3647	Future Phase	02070010	SWM Facility - Ch 3	0.19	0.68	Existing median grassy open space. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3648	Future Phase	02070010	SWM Facility - Ch 3	0.14	0.56	Existing median grassy open space. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3649	Future Phase	02070010	SWM Facility - Ch 3	0.22	0.30	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3650	Future Phase	02070010	SWM Facility - Ch 3	0.18	0.21	Existing median grassy open space. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3652	Phase 1 South	02070008	SWM Facility - Ch 3	0.23	0.28	Existing median with sidewalk and landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3653	Phase 1 South	02070008	SWM Facility - Ch 3	0.12	0.25	Existing median grassy open space. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3655	Future Phase	02070010	SWM Facility - Ch 3	0.16	1.32	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3656	Future Phase	02070010	SWM Facility - Ch 3	0.21	0.69	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3657	Future Phase	02070010	SWM Facility - Ch 3	0.23	0.35	Existing median grassy open space with landscaping trees. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3658	Future Phase	02070010	SWM Facility - Ch 5	0.86	0.59	Existing median grassy open space with concrete channel. There appears to be a possibility to remove the concrete channel.
WAS-3994	Future Phase	02070010	SWM Facility - Ch 5	0.61	0.44	Existing open space SHA work area. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-3995	Future Phase	02070010	SWM Facility - Ch 5	0.35	0.12	Existing median grassy open space.
WAS-3996	Future Phase	02070010	SWM Facility - Ch 5	0.39	0.21	Existing median grassy open space. Adjacent to potential project MD 5 from US 301 to I-95.
WAS-3997	Future Phase	02070010	SWM Facility - Ch 5	0.64	0.32	Existing roadside grassy open space with vegetation.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-3999	Future Phase	02070010	SWM Facility - Ch 5	0.31	0.35	Existing roadside open space. Adjacent to potential project MD 5 from US 301 to I-95. There appears to be a possibility to adjust existing storm drain configurations/drainage patterns and/or add additional storm drain systems to allow for more impervious area treatment.
WAS-4000	Future Phase	02070010	SWM Facility - Ch 5	0.35	0.18	Existing roadside open space with vegetation. NPDES database shown does not match field conditions (drainage structures and associated systems not shown, in the incorrect location, or draining the wrong direction).
WAS-4002	Phase 1 South	02070008	SWM Facility - Ch 3	0.41	0.79	Existing open space. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Ground monitoring wells near LOD, Significant hazardous materials concerns (if groundwater contamination is identified within LOD, see HAZMAT comments) which are being considered to have little to no risk to SWM BMP functionality with the use of industry standard protection measures in design and during construction. This area is located adjacent to MDOT SHA District 3 Access Permit No. 17APMO006X, 19APMO023X, and 16APMO004XX. Site previously identified during TMDL efforts as MO-MP-0026.
WAS-4006	Phase 1 South	02070008	Pavement Removal	0.74	0.38	Existing roadway with potential to remove pavement within the LOD. Several existing inlets and manholes within the area. This area may be designated for various Cabin Branch developments and related MD 121 widening and relocation per District 3. Field conditions and NPDES database vary from what is shown in aerial imagery.
WAS-4010	Phase 1 South	02070008	SWM Facility - Ch 5	1.65	0.33	Existing open space and drainage ditch along roadway. No trees within LOD. Existing drainage ditch along property fence which could potentially be maintained as a diversion to reduce the size of a potential facility. This area is located adjacent to MDOT SHA District 3 Access Permit No. 12APMO008XX. Site previously identified during TMDL efforts as MO-MP-0034.
WAS-4011	Phase 1 South	02070008	SWM Facility - Ch 3	1.64	0.64	Existing open channel lined with concrete. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. No trees within LOD or within the outfall. Site previously identified during TMDL efforts as MOGr1-RKK-166.
WAS-4013	Phase 1 South	02070008	SWM Facility - Ch 3	0.92	0.18	Existing open space. Trees near the outfall. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility.
WAS-4014	Phase 1 South	02070008	SWM Facility - Ch 5	0.47	0.18	Existing drainage channel. Adjacent to residential property. Potential facility divided by residential driveway.
WAS-4015	Phase 1 South	02070008	SWM Facility - Ch 3	0.36	0.27	Existing open space near sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. No trees within LOD.
WAS-4016	Phase 1 South	02070008	SWM Facility - Ch 3	0.32	0.19	Existing open space near sidewalk. Trees along outfall. Potential for existing drainage structures to be converted to underground facility for WQ credit.
WAS-4017	Phase 1 South	02070008	SWM Facility - Ch 3	0.51	0.29	Existing open space. One tree within potential BMP footprint. LOD adjacent to existing SWM pond. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility and to divert drainage from mechanic shop. Potential for existing drainage structures to be converted to underground facility for WQ credit.
WAS-4018	Phase 1 South	02070008	SWM Facility - Ch 5	1.62	0.59	Existing open space. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and reduce the size of a proposed facility. NPDES database shown does not match field conditions the headwall at the downstream is not shown in the correct location.
WAS-4019	Phase 1 South	02070008	SWM Facility - Ch 5	0.86	0.10	Existing open space along roadway. Adjacent land for sale. No trees within BMP footprint. Trees at potential outfall. This area is located adjacent to MDOT SHA District 3 Access Permit No. 12APMO010XX.
WAS-4020	Phase 1 South	02070008	SWM Facility - Ch 5	1.21	0.17	Existing open space along roadway. Adjacent to farmland. Trees along LOD and within the potential BMP footprint. Separation at outfall pipe.
WAS-4021	Phase 1 South	02070008	SWM Facility - Ch 5	0.73	0.13	Existing open space along roadway. Adjacent to farmland. Trees along LOD and within the potential BMP footprint. Separation at outfall pipe.
WAS-4022	Phase 1 South	02070008	SWM Facility - Ch 5	0.53	0.12	Existing open space. NPDES database shown does not match field conditions outfall pipe is shown in the wrong location. No trees within facility footprint. Trees within the potential outfall channel.
WAS-4023	Phase 1 South	02070008	SWM Facility - Ch 5	0.40	0.13	Existing open space. NPDES database shown does not match field conditions outfall pipe is not shown. Minor erosion in downstream channel.
WAS-4024	Phase 1 South	02070008	SWM Facility - Ch 5	0.36	0.10	Existing open space. Trees within the potential outfall.
WAS-4025	Phase 1 South	02070008	SWM Facility - Ch 5	0.76	0.33	Existing open space. Adjacent to existing residential homes. Trees within potential outfall and outfall may require additional stabilization.
WAS-4026	Phase 1 South	02070008	SWM Facility - Ch 5	0.91	0.19	Existing open space. No trees within LOD.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-4027	Phase 1 South	02070008	SWM Facility - Ch 3	0.55	0.18	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. No trees within LOD.
WAS-4029	Phase 1 South	02070008	SWM Facility - Ch 3	0.64	0.17	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. No trees within LOD.
WAS-4030	Phase 1 South	02070008	SWM Facility - Ch 3	0.68	0.25	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. No trees within LOD.
WAS-4031	Phase 1 South	02070008	SWM Facility - Ch 3	0.56	0.44	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. No trees within LOD.
WAS-4032	Phase 1 South	02070008	SWM Facility - Ch 3	0.30	0.23	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Several trees within LOD.
WAS-4037	Phase 1 South	02070008	SWM Facility - Ch 3	0.55	0.36	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Several trees within LOD.
WAS-4038	Phase 1 South	02070008	SWM Facility - Ch 3	2.30	1.23	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit.
WAS-4040	Phase 1 South	02070008	SWM Facility - Ch 3	0.61	0.44	Existing open space within grassy median. Trees along LOD. Potential for existing drainage structures to be converted to underground facility for WQ credit. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility.
WAS-4045	Phase 1 South	02070008	SWM Facility - Ch 3	0.62	0.72	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Several trees within LOD.
WAS-4047	Phase 1 South	02070008	SWM Facility - Ch 3	1.56	0.77	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Trees within LOD near the downstream.
WAS-4048	Phase 1 South	02070008	SWM Facility - Ch 5	1.31	1.04	Existing open space near existing sidewalk. Potential need to relocate existing sidewalk. Trees along LOD.
WAS-4050	Phase 1 South	02070008	SWM Facility - Ch 3	1.80	0.23	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Trees within LOD near the downstream and at outfall. Existing drainage ditch is stable within the LOD. Site previously identified during TMDL efforts as MOGr1-RKK-245.
WAS-4052	Phase 1 South	02070008	SWM Facility - Ch 3	0.87	0.38	Existing open space near existing porous pavement sidewalk. Monitoring wells for porous pavement adjacent to the LOD.
WAS-4053	Phase 1 South	02070008	SWM Facility - Ch 3	0.79	0.44	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Several trees within LOD. This area is located adjacent to MDOT SHA District 3 Access Permit No. 18APMO01619.
WAS-4058	Phase 1 South	02070008	SWM Facility - Ch 5	0.64	0.29	Existing open space within grassy median. No trees within LOD. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. Site previously identified during TMDL efforts as MOGr1-RKK-149.
WAS-4059	Phase 1 South	02070008	SWM Facility - Ch 3	0.92	0.79	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Existing SWM pond adjacent to potential facility. NPDES database does not match field conditions there are additional outfall pipes for the facility not shown. Trees at outfall.
WAS-4060	Phase 1 South	02070008	SWM Facility - Ch 5	1.10	0.64	Existing open space within grassy median. No trees within LOD. Potential need to rebuild storm drain system for outfall of potential BMP. A bypass system may be required to divert drainage from existing impervious area that is currently treated by and existing upstream NPDES SWM facility. This area is located adjacent to MDOT SHA District 3 Access Permit No. 16APMO029XX. Significant hazardous materials concerns (if groundwater contamination is identified within LOD, see HAZMAT comments) which are being considered to have little to no risk to SWM BMP functionality with the use of industry standard protection measures in design and during construction.
WAS-4061	Phase 1 South	02070008	SWM Facility - Ch 3	0.73	0.44	Existing open space near sidewalk. No trees within LOD. Existing headwall within LOD submerged and channel eroded. Site previously identified during TMDL efforts as MOGr1-RKK-156.
WAS-4063	Phase 1 South	02070008	SWM Facility - Ch 3	0.62	0.40	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Trees within outfall channel.
WAS-4064	Phase 1 South	02070008	SWM Facility - Ch 5	0.54	0.30	Existing open space near residential homes. Adjacent to existing SWM pond. Trees along LOD.
WAS-4065	Phase 1 South	02070008	SWM Facility - Ch 3	1.16	0.73	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-4067	Phase 1 South	02070008	SWM Facility - Ch 5	0.84	0.94	Existing open space near existing sidewalk. Trees along LOD.
WAS-4068	Phase 1 South	02070008	SWM Facility - Ch 5	0.71	0.39	Existing open space within grassy median. No trees within LOD.
WAS-4072	Phase 1 South	02070008	SWM Facility - Ch 3	1.19	0.71	Existing open space within grassy median. Potential for existing drainage structures to be converted to underground facility for WQ credit. Trees within the LOD.
WAS-4075	Phase 1 South	02070008	SWM Facility - Ch 3	1.15	2.78	Open space adjacent to bus parking lot. Trees at outfall but no trees impacted by potential facility footprint. Outfall appears stable. Initial field measurements indicate enough elevation change to potentially capture entirety of roadway drainage along Clopper Road and Germantown Road without modifying outfall structure. Significant hazardous materials concerns (if groundwater contamination is identified within LOD, see HAZMAT comments) which are being considered to have little to no risk to SWM BMP functionality with the use of industry standard protection measures in design and during construction.
WAS-4078	Phase 1 South	02070008	SWM Facility - Ch 5	1.54	0.57	Existing open space adjacent to sidewalk. No trees at LOD. Outfall may require repair.
WAS-4079	Phase 1 South	02070008	SWM Facility - Ch 3	1.08	0.74	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit.
WAS-4083	Phase 1 South	02070008	SWM Facility - Ch 3	0.99	0.60	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit.
WAS-4084	Phase 1 South	02070008	SWM Facility - Ch 3	0.55	0.38	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Site previously identified during TMDL efforts as MOGr1-RKK-485.
WAS-4086	Phase 1 South	02070008	SWM Facility - Ch 3	0.23	0.36	Existing open space within grassy median. Trees along LOD. Potential for existing drainage structures to be converted to underground facility for WQ credit.
WAS-4087	Phase 1 South	02070008	SWM Facility - Ch 5	0.74	0.46	Existing open space near existing sidewalk. Stable along existing drainage ditch. Stable at outfall. Adjacent to existing SWM facilities. Field conditions and NPDES database vary from what is shown in aerial imagery. This area is located adjacent to MDOT SHA District 3 Access Permit No. 17APMO01718.
WAS-4091	Phase 1 South	02070008	SWM Facility - Ch 5	2.03	1.79	Existing open space within grassy median. Site previously identified during TMDL efforts as MOGr1-RKK-197a.
WAS-4093	Future Phase	02070010	SWM Facility - Ch 3	0.85	0.54	Open space near sidewalk. Trees within the potential outfall. Trees within the potential BMP footprint. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Significant hazardous materials concerns (if groundwater contamination is identified within LOD, see HAZMAT comments) which are being considered to have little to no risk to SWM BMP functionality with the use of industry standard protection measures in design and during construction. Site previously identified during TMDL efforts as MOGr1-JMT-177.
WAS-4096	Phase 1 South	02070008	SWM Facility - Ch 3	0.36	0.48	Existing open area near residential area. Near existing porous pavement sidewalk. Monitoring wells for porous pavement adjacent to the LOD. Several trees within LOD.
WAS-4098	Phase 1 South	02070008	SWM Facility - Ch 3	0.59	0.57	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Significant hazardous materials concerns (if groundwater contamination is identified within LOD, see HAZMAT comments) which are being considered to have little to no risk to SWM BMP functionality with the use of industry standard protection measures in design and during construction.
WAS-4099	Phase 1 South	02070008	SWM Facility - Ch 5	0.24	0.16	Existing open space near existing sidewalk. Stable at potential outfall. No trees within BMP footprint. Trees within the outfall.
WAS-4100	Future Phase	02070010	SWM Facility - Ch 5	2.06	0.41	Existing open space. Existing drainage ditch along parking lot which could potentially be maintained as a diversion to reduce the size of a potential facility. This area may be designated for future improvement project per District 3 (Contract No. PG7585184).
WAS-4101	Future Phase	02070010	SWM Facility - Ch 5	0.84	1.43	Existing open space. Potential outfall already stabilized. Trees within the LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. This area may be designated for future improvement project per District 3 (Contract No. PG7585184).
WAS-4111	Future Phase	02070010	SWM Facility - Ch 5	1.38	0.79	Existing open space. Trees along LOD and within outfall. This area may be designated for future improvement project per District 3 (Contract No. PG7585184).
WAS-4112	Future Phase	02070010	SWM Facility - Ch 5	2.05	0.69	Existing open space. A bypass system may be required to divert drainage from potential impervious area around an existing downstream NPDES SWM facility. This area may be designated for future improvement project per District 3 (Contract No. PG7585184).

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-4119	Future Phase	02060006	SWM Facility - Ch 3	0.96	0.57	Existing open space. No trees within LOD. Potential for existing drainage structures to be converted to underground facility for WQ credit.
WAS-4121	Future Phase	02070010	SWM Facility - Ch 5	1.45	0.46	Existing open space in median. No trees along LOD.
WAS-4122	Future Phase	02070010	SWM Facility - Ch 5	1.47	0.79	Existing open space in median. No trees within LOD. Trees in outfall channel.
WAS-4123	Future Phase	02070010	SWM Facility - Ch 5	2.38	1.26	Existing open space in median. No trees along LOD.
WAS-4124	Future Phase	02070010	SWM Facility - Ch 5	2.24	1.17	Existing open space in median. No trees along LOD. Outfall may require additional stabilization.
WAS-4125	Future Phase	02070010	SWM Facility - Ch 5	1.12	0.44	Existing open space in median. No trees along LOD.
WAS-4127	Future Phase	02070010	SWM Facility - Ch 5	0.96	0.65	Existing open space in median. Trees along LOD. Site previously identified during TMDL efforts as PG-MP-0134.
WAS-4131	Future Phase	02070010	SWM Facility - Ch 3	1.11	0.36	Existing open space near sidewalk. No trees along LOD. Potential for existing drainage structures to be converted to underground facility for WQ credit.
WAS-4132	Future Phase	02070010	SWM Facility - Ch 3	0.10	0.25	Existing open space within median. No trees along LOD. Potential for existing drainage structures to be converted to underground facility for WQ credit.
WAS-4134	Future Phase	02070010	SWM Facility - Ch 5	1.20	0.76	Existing open space within median. No trees along LOD. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. This area may be designated for future improvement project per District 3 (Contract No. XY2295B77).
WAS-4135	Future Phase	02070010	SWM Facility - Ch 5	0.44	0.31	Existing open space within median. No trees along LOD. A bypass system may be required to divert drainage from existing impervious area that is currently treated by an existing upstream NPDES SWM facility. This area may be designated for future improvement project per District 3 (Contract No. XY2295B77).
WAS-4137	Future Phase	02070010	SWM Facility - Ch 5	1.13	0.35	Existing open space. Existing SWM facility upstream which requires a potential diversion of this facility. This area may be designated for future improvement project per District 3 (Contract No. PG7585184).
WAS-4138	Future Phase	02070010	SWM Facility - Ch 5	0.86	0.57	Existing open space in median. No trees along LOD.
WAS-4140	Future Phase	02070010	SWM Facility - Ch 5	1.11	0.77	Existing open space in median. Trees along LOD.
WAS-4141	Future Phase	02070010	SWM Facility - Ch 3	0.33	0.23	Existing open space. Trees along the LOD. Potential for existing drainage structures to be converted to underground facility for WQ credit. Outfall may require additional stabilization.
WAS-4150	Phase 1 South	02070008	SWM Facility - Ch 5	1.25	0.34	Existing open space. Trees along edge of LOD. Trees along LOD are associated with the apple farm adjacent. Trees at outfall from apple farm. Outfall channel stable. Significant hazardous materials concerns (if groundwater contamination is identified within LOD, see HAZMAT comments) which are being considered to have little to no risk to SWM BMP functionality with the use of industry standard protection measures in design and during construction.
WAS-4153	Phase 1 South	02070008	SWM Facility - Ch 5	1.05	0.23	Existing open space. Trees along LOD and within outfall. Stable at outfall.
WAS-4154	Phase 1 South	02070008	SWM Facility - Ch 5	0.42	0.10	Existing open space adjacent to farm area. NPDES database shown does not match field conditions with the existing end section closer to the north of the LOD.
WAS-4155	Phase 1 South	02070008	SWM Facility - Ch 5	0.25	0.10	Existing open space. NPDES database shown does not match field conditions with outfall pipe not shown. Outfall channel may require additional stabilization or repair.
WAS-4156	Phase 1 South	02070008	SWM Facility - Ch 3	0.38	0.21	Existing open space near existing parking lot for CSX railroad. Trees within potential BMP footprint. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility.
WAS-4157	Phase 1 South	02070008	SWM Facility - Ch 3	0.30	0.19	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. No trees within LOD.
WAS-4158	Phase 1 South	02070008	SWM Facility - Ch 3	0.31	0.27	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. No trees within LOD.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-4159	Phase 1 South	02070008	SWM Facility - Ch 3	0.22	0.14	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. No trees within LOD.
WAS-4160	Phase 1 South	02070008	SWM Facility - Ch 3	0.41	0.40	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Trees along edge of LOD.
WAS-4161	Phase 1 South	02070008	SWM Facility - Ch 3	0.09	0.26	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Trees along edge of LOD.
WAS-4162	Phase 1 South	02070008	SWM Facility - Ch 3	0.34	0.34	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. No trees within LOD.
WAS-4163	Phase 1 South	02070008	SWM Facility - Ch 3	0.25	0.11	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Several trees within LOD.
WAS-4164	Phase 1 South	02070008	SWM Facility - Ch 3	0.25	0.43	Existing open space near existing sidewalk. Potential for existing drainage structures to be converted to underground facility for WQ credit. Several trees within LOD. Significant hazardous materials concerns (if groundwater contamination is identified within LOD, see HAZMAT comments) which are being considered to have little to no risk to SWM BMP functionality with the use of industry standard protection measures in design and during construction.
WAS-4165	Phase 1 South	02070008	SWM Facility - Ch 3	0.56	0.53	Existing open space adjacent to sidewalk. No trees within LOD. Potential for existing drainage structures to be converted to underground facility for WQ credit. This area is located adjacent to MDOT SHA District 3 Access Permit No. 16APMO029XX. Significant hazardous materials concerns (if groundwater contamination is identified within LOD, see HAZMAT comments) which are being considered to have little to no risk to SWM BMP functionality with the use of industry standard protection measures in design and during construction.
WAS-4200	Phase 1 South	02070008	SWM Facility - Ch 5	0.65	0.11	Existing open space adjacent to farm. No trees within BMP footprint. Trees near outfall channel. Stable within downstream channel.
WAS-4201	Phase 1 South	02070008	SWM Facility - Ch 3	0.46	0.10	Existing open space adjacent to residential area. Trees along LOD. Stable channel for outfall.
WAS-4202	Phase 1 South	02070008	SWM Facility - Ch 5	0.63	0.10	Existing open space adjacent to residential area. Trees along LOD.
WAS-4203	Phase 1 South	02070008	SWM Facility - Ch 3	0.43	0.14	Existing open space adjacent to residential area. Potential for existing drainage structures to be converted to underground facility for WQ credit. Trees along LOD.
WAS-4204	Phase 1 South	02070008	SWM Facility - Ch 5	1.29	0.31	Existing open space adjacent to residential area. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Trees within downstream channel. Potential need to rebuild stormdrain system for elevation drop for facility outfall.
WAS-4205	Phase 1 South	02070008	SWM Facility - Ch 5	1.29	0.17	Existing open space adjacent to residential area. Trees within downstream channel.
WAS-4206	Phase 1 South	02070008	SWM Facility - Ch 5	1.08	0.26	Existing open space adjacent to residential area. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Trees within downstream channel.
WAS-4208	Phase 1 South	02070008	SWM Facility - Ch 5	0.76	0.14	Existing open space adjacent to residential area. Trees within downstream channel.
WAS-4212	Phase 1 South	02070008	SWM Facility - Ch 5	0.81	0.14	Existing open space adjacent to farm. Stable within downstream channel. No trees within LOD. Site previously identified during TMDL efforts as MO-MP-0044.
WAS-4214	Phase 1 South	02070008	SWM Facility - Ch 5	0.55	0.10	Existing open space adjacent to farm. Stable within downstream channel. No trees within LOD.
WAS-4215	Phase 1 South	02070008	SWM Facility - Ch 5	0.71	0.21	Existing open space adjacent to farm. Trees along LOD. Potential need to rebuild stormdrain system for elevation drop for facility outfall.
WAS-4216	Phase 1 South	02070008	SWM Facility - Ch 5	0.72	0.14	Existing open space adjacent to farm. No trees along LOD. Potential need to rebuild stormdrain system for elevation drop for facility outfall.
WAS-4218	Phase 1 South	02070008	SWM Facility - Ch 5	0.67	0.11	Existing open space adjacent to farm. Stable within downstream channel. No trees within LOD.
WAS-4304	Phase 1 South	02070008	SWM Facility - Ch 5	0.23	0.30	Existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Final outfall location to be field verified.
WAS-4310	Phase 1 South	02070008	SWM Facility - Ch 3	0.11	0.16	Existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential storm drain invert modifications to daylight outfall. Refer to Property Account #160303748616 for Parcel 'B' transfer information.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-4321	Phase 1 South	02070008	SWM Facility - Ch 5	0.10	0.28	Existing curb within LOD. Potential outfall tie in at existing storm drain traveling southwest.
WAS-4322	Phase 1 South	02070008	SWM Facility - Ch 3	0.09	0.10	Existing curb within LOD. Potential outfall tie into existing storm drain within Frederick Road. NPDES database shown does not match field conditions (drainage structures and associated system draining in the wrong direction).
WAS-4323	Phase 1 South	02070008	SWM Facility - Ch 3	0.08	0.17	Existing curb within LOD. Potential outfall tie in at existing storm drain within Frederick Road.
WAS-4324	Phase 1 South	02070008	SWM Facility - Ch 3	0.46	1.25	Existing curb within LOD. Potential outfall tie in at existing inlet. NPDES database shown does not match field conditions (drainage structures and associated systems not shown in the incorrect location).
WAS-4325	Phase 1 South	02070008	SWM Facility - Ch 3	0.26	0.30	Existing curb within LOD. Potential upstream storm drain layout modification to maintain drop through system. Potential outfall tie in at existing storm drain traveling west.
WAS-4331	Phase 1 South	02070008	SWM Facility - Ch 5	0.63	0.11	Existing curb within LOD. Potential bio-swales in series and storm drain under driveway. Potential to daylight outfall in wooded channel.
WAS-4333	Phase 1 South	02070008	SWM Facility - Ch 5	0.90	0.13	Existing curb within LOD. Potential bio-swales in series and storm drain under driveway. Potential to daylight outfall in wooded channel.
WAS-4334	Phase 1 South	02070008	SWM Facility - Ch 3	0.71	0.14	No existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to daylight outfall in wooded channel.
WAS-4335	Phase 1 South	02070008	SWM Facility - Ch 5	0.70	0.15	No existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to daylight outfall in wooded channel. Per hazmat review, evaluate limits of prior spill near west corner of LOD.
WAS-4336	Phase 1 South	02070008	SWM Facility - Ch 5	0.34	0.15	No existing curb within LOD.
WAS-4337	Phase 1 South	02070008	SWM Facility - Ch 5	0.43	0.10	No existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to daylight outfall upstream of existing road culvert.
WAS-4338	Phase 1 South	02070008	SWM Facility - Ch 5	0.47	0.10	No existing curb within LOD. Potential storm drain below driveway to daylight outfall.
WAS-4339	Phase 1 South	02070008	SWM Facility - Ch 5	1.11	0.37	Existing asphalt curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to daylight outfall into wooded channel.
WAS-4342	Phase 1 South	02070008	SWM Facility - Ch 5	0.42	0.10	No existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to daylight outfall into broad grass channel.
WAS-4345	Phase 1 South	02070008	SWM Facility - Ch 5	0.52	0.16	No existing curb within LOD. Potential to daylight outfall into wooded channel.
WAS-4347	Phase 1 South	02070008	SWM Facility - Ch 5	0.44	0.19	No existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to daylight outfall into wooded channel. Potential existing rock wall and landscaping modifications within LOD.
WAS-4349	Phase 1 South	02070008	SWM Facility - Ch 5	0.72	0.12	No existing curb within LOD. Potential to daylight outfall into existing channel. Potential modifications to existing landscaping within LOD.
WAS-4352	Phase 1 South	02070008	SWM Facility - Ch 5	0.88	0.13	No existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to outfall into existing inlet.
WAS-4353	Phase 1 South	02070008	SWM Facility - Ch 5	2.07	0.38	Existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to outfall into existing inlet.
WAS-4354	Phase 1 South	02070008	SWM Facility - Ch 5	0.84	0.37	No existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to daylight outfall into existing channel.
WAS-4355	Phase 1 South	02070008	SWM Facility - Ch 3	0.97	0.10	Existing curb within LOD. Potential driveway culvert improvement. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to daylight outfall into roadside ditch.
WAS-4356	Phase 1 South	02070008	SWM Facility - Ch 5	1.04	0.44	No existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to daylight outfall into existing channel.
WAS-4361	Phase 1 South	02070008	SWM Facility - Ch 5	0.54	0.14	No existing curb within LOD. Potential to daylight outfall into existing channel.
WAS-4362	Phase 1 South	02070008	SWM Facility - Ch 3	0.42	0.13	Existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to daylight outfall into existing stream channel.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-4363	Phase 1 South	02070008	SWM Facility - Ch 5	0.26	0.10	No existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to remove/modify existing fence within LOD. Potential to daylight outfall into existing stream channel.
WAS-4364	Phase 1 South	02070008	SWM Facility - Ch 5	0.70	0.21	No existing curb within LOD. Potential to daylight outfall into existing roadside ditch.
WAS-4366	Phase 1 South	02070008	SWM Facility - Ch 5	0.48	0.29	No existing curb within LOD. Potential to daylight outfall into existing roadside ditch.
WAS-4370	Phase 1 South	02070008	SWM Facility - Ch 3	0.21	0.33	No existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to daylight outfall into existing wooded channel.
WAS-4371	Phase 1 South	02070008	SWM Facility - Ch 3	0.20	0.30	No existing curb within LOD. Potential upstream ditch improvements for conveyance. Potential to daylight outfall into existing wooded channel. Per hazmat review, evaluate upstream property (outside of LOD) with diesel tank removal noted in June 1994.
WAS-4373	Phase 1 South	02070008	SWM Facility - Ch 3	0.63	0.11	No existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential driveway culvert improvement. Potential to daylight outfall into existing roadside ditch.
WAS-4375	Phase 1 South	02070008	SWM Facility - Ch 5	0.67	0.11	Existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to daylight outfall into existing wooded channel.
WAS-4376	Phase 1 South	02070008	SWM Facility - Ch 3	0.21	0.34	Existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to daylight outfall into existing roadside ditch prior to existing driveway culvert.
WAS-4377	Phase 1 South	02070008	SWM Facility - Ch 5	0.46	0.15	No existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to daylight outfall into existing swale.
WAS-4378	Phase 1 South	02070008	SWM Facility - Ch 5	0.41	0.12	No existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to daylight outfall into existing roadway culvert.
WAS-4382	Phase 1 South	02070008	SWM Facility - Ch 3	0.11	0.30	No existing curb within LOD. Potential to daylight outfall into existing channel.
WAS-4383	Phase 1 South	02070008	SWM Facility - Ch 3	0.18	0.57	Existing curb within LOD. Potential to daylight outfall into existing wooded channel.
WAS-4385	Phase 1 South	02070008	SWM Facility - Ch 3	0.15	0.39	No existing curb within LOD. Potential to daylight outfall into existing wooded channel.
WAS-4386	Phase 1 South	02070008	SWM Facility - Ch 3	0.25	0.13	No existing curb within LOD. Potential to outfall into existing inlet.
WAS-4391	Phase 1 South	02070008	SWM Facility - Ch 5	0.86	0.16	No existing curb within LOD. Potential to daylight outfall through a storm drain system into existing stream channel.
WAS-4392	Phase 1 South	02070008	SWM Facility - Ch 5	0.81	0.21	No existing curb within LOD. Potential to daylight outfall through a storm drain system, under existing driveway, into existing wooded channel.
WAS-4393	Phase 1 South	02070008	SWM Facility - Ch 3	0.16	0.40	Existing curb within LOD. Potential to remove/modify existing fence within LOD. Potential to daylight outfall into existing standpipe which drains east across private property.
WAS-4394	Phase 1 South	02070008	SWM Facility - Ch 3	0.47	0.15	Existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to outfall into existing inlet.
WAS-4397	Phase 1 South	02070008	SWM Facility - Ch 5	0.56	0.23	No existing curb within LOD. Potential to remove/modify existing fence within LOD. Potential to daylight outfall into existing ditch within ROW.
WAS-4402	Phase 1 South	02070008	SWM Facility - Ch 3	0.24	0.28	Existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to outfall into existing inlet.
WAS-4404	Phase 1 South	02070008	SWM Facility - Ch 3	0.44	0.53	No existing curb within LOD. Potential to daylight outfall into existing wooded channel.
WAS-4405	Phase 1 South	02070008	SWM Facility - Ch 5	0.77	0.19	No existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to daylight outfall into existing wooded channel.
WAS-4406	Phase 1 South	02070008	SWM Facility - Ch 3	0.76	0.43	No existing curb within LOD. Potential to daylight outfall into existing wooded channel to avoid impacts to existing SWM credit area downstream of LOD.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-4407	Phase 1 South	02070008	SWM Facility - Ch 5	1.09	0.26	No existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to outfall into existing inlet.
WAS-4411	Phase 1 South	02070008	SWM Facility - Ch 3	0.41	0.12	No existing curb within LOD. Potential to outfall into existing inlet. Existing residential entrance found downstream of facility not shown on provided aerial map.
WAS-4412	Phase 1 South	02070008	SWM Facility - Ch 5	0.54	0.11	No existing curb within LOD. Potential to outfall into existing inlet.
WAS-4413	Phase 1 South	02070008	SWM Facility - Ch 3	0.33	0.11	No existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to outfall into existing inlet. Potential modification to downstream storm drain system.
WAS-4414	Phase 1 South	02070008	SWM Facility - Ch 3	0.15	0.21	No existing curb within LOD. Potential to outfall into existing inlet.
WAS-4415	Phase 1 South	02070008	SWM Facility - Ch 5	0.47	0.40	No existing curb within LOD. Potential to outfall through a storm drain system, under existing driveway, into existing channel.
WAS-4423	Phase 1 South	02070008	SWM Facility - Ch 3	0.24	0.11	No existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to daylight outfall into existing wooded channel.
WAS-4424	Phase 1 South	02070008	SWM Facility - Ch 3	0.43	0.28	No existing curb within LOD. Potential to remove/modify existing fence within LOD. Potential to daylight outfall upstream of existing roadway culvert.
WAS-4425	Phase 1 South	02070008	SWM Facility - Ch 3	0.13	0.34	No existing curb within LOD. Potential to daylight outfall into existing wooded channel.
WAS-4426	Phase 1 South	02070008	SWM Facility - Ch 3	0.51	0.17	No existing curb within LOD. Potential to daylight outfall into existing ditch. This area is located adjacent to MDOT SHA District 03 Access Permit No. 07APMO00409 (The Reserve at Black Rock).
WAS-4427	Phase 1 South	02070008	SWM Facility - Ch 3	0.33	0.24	No existing curb within LOD. Potential to daylight outfall into existing wooded channel. This area is located adjacent to MDOT SHA District 03 Access Permit No. 07APMO00409 (The Reserve at Black Rock).
WAS-4428	Phase 1 South	02070008	SWM Facility - Ch 3	0.17	0.16	No existing curb within LOD. Potential to daylight outfall into existing grass ditch. This area is located adjacent to MDOT SHA District 03 Access Permit No. 07APMO00409 (The Reserve at Black Rock).
WAS-4429	Phase 1 South	02070008	SWM Facility - Ch 3	0.35	0.49	No existing curb within LOD. Potential to daylight outfall into existing wooded channel. This area is located adjacent to MDOT SHA District 03 Access Permit No. 07APMO00409 (The Reserve at Black Rock).
WAS-4431	Phase 1 South	02070008	SWM Facility - Ch 5	0.58	0.41	No existing curb within LOD. Potential to daylight outfall into existing wooded channel. This area is located adjacent to MDOT SHA District 03 Access Permit No. 07APMO00409 (The Reserve at Black Rock).
WAS-4432	Phase 1 South	02070008	SWM Facility - Ch 5	0.73	0.32	Existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to daylight outfall upstream of existing roadway culvert. This area is located adjacent to MDOT SHA District 03 Access Permit No. 07APMO00409 (The Reserve at Black Rock).
WAS-4433	Phase 1 South	02070008	SWM Facility - Ch 3	0.13	0.39	Existing curb within LOD. Potential to daylight outfall into existing wooded channel. This area is located adjacent to MDOT SHA District 03 Access Permit No. 07APMO00409 (The Reserve at Black Rock).
WAS-4441	Phase 1 South	02070008	SWM Facility - Ch 5	0.23	0.11	No existing curb within LOD. Potential to outfall into existing roadway culvert. Outfall and/or receiving channel may require additional stabilization and/or repair.
WAS-4442	Phase 1 South	02070008	SWM Facility - Ch 5	0.32	0.25	No existing curb within LOD. Potential to daylight outfall into existing channel.
WAS-4443	Phase 1 South	02070008	SWM Facility - Ch 3	0.19	0.26	No existing curb within LOD. Potential to daylight outfall upstream of existing roadway culvert.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-4444	Phase 1 South	02070008	SWM Facility - Ch 5	0.27	0.23	No existing curb within LOD. Potential to daylight outfall into existing wooded channel.
WAS-4445	Phase 1 South	02070008	SWM Facility - Ch 3	0.19	0.13	No existing curb within LOD. Potential to daylight outfall upstream of existing roadway culvert.
WAS-4446	Phase 1 South	02070008	SWM Facility - Ch 3	0.23	0.19	Existing curb within LOD. Potential to daylight outfall, under existing driveway, into existing roadside ditch.
WAS-4447	Phase 1 South	02070008	SWM Facility - Ch 3	0.19	0.20	No existing curb within LOD. Potential to remove/modify existing fence within LOD. Existing field entrance located within LOD. Potential to daylight outfall via proposed storm drain system.
WAS-4448	Phase 1 South	02070008	SWM Facility - Ch 3	0.19	0.19	No existing curb within LOD. Existing mailbox found near outfall. Potential to modify existing headwall within LOD. Potential to daylight outfall via proposed storm drain system.
WAS-4449	Phase 1 South	02070008	SWM Facility - Ch 5	0.48	0.29	No existing curb within LOD. Potential to remove/modify existing landscape features within LOD. Potential to daylight outfall into existing stream channel.
WAS-4450	Phase 1 South	02070008	SWM Facility - Ch 3	0.25	0.10	No existing curb within LOD. Potential to daylight outfall upstream of existing roadway culvert. Per hazmat review, evaluate history of oil leak at upstream vacant auto repair shop.
WAS-4451	Phase 1 South	02070008	SWM Facility - Ch 3	0.30	0.15	No existing curb within LOD. Potential to daylight outfall upstream of existing roadway culvert. Per hazmat review, evaluate history of oil leak at upstream vacant auto repair shop.
WAS-4452	Phase 1 South	02070008	SWM Facility - Ch 3	0.17	0.13	No existing curb within LOD. Potential to daylight outfall upstream of existing roadway culvert.
WAS-4453	Phase 1 South	02070008	SWM Facility - Ch 3	0.17	0.21	No existing curb within LOD. Potential to daylight outfall upstream of existing roadway culvert.
WAS-4454	Phase 1 South	02070008	SWM Facility - Ch 3	0.09	0.20	No existing curb within LOD. Potential to daylight outfall into existing grass ditch.
WAS-4455	Phase 1 South	02070008	SWM Facility - Ch 3	0.17	0.13	No existing curb within LOD. Potential to daylight outfall upstream of existing roadway culvert.
WAS-4456	Phase 1 South	02070008	SWM Facility - Ch 3	0.43	0.29	No existing curb within LOD. Potential to daylight outfall into existing lake. Per hazmat review, evaluate history of oil leak at upstream vacant auto repair shop.
WAS-4457	Phase 1 South	02070008	SWM Facility - Ch 3	0.36	0.28	No existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to daylight outfall into existing lake.
WAS-4459	Phase 1 South	02070008	SWM Facility - Ch 3	1.06	0.19	No existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to daylight outfall upstream of existing roadway culvert. Potential storm drain invert modifications to daylight outfall.
WAS-4462	Phase 1 South	02070008	SWM Facility - Ch 5	0.95	0.22	No existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to daylight outfall upstream of existing roadway culvert.
WAS-4463	Phase 1 South	02070008	SWM Facility - Ch 5	0.33	0.22	Existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to daylight outfall upstream of existing roadway culvert.
WAS-4464	Phase 1 South	02070008	SWM Facility - Ch 3	0.23	0.11	No existing curb within LOD. Potential to daylight outfall into existing grass ditch.
WAS-4474	Phase 1 South	02070008	SWM Facility - Ch 3	0.08	0.25	Existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to outfall into existing storm drain system.
WAS-4475	Phase 1 South	02070008	SWM Facility - Ch 3	0.13	0.29	Existing curb within LOD. Potential to outfall into existing storm drain system.
WAS-4476	Phase 1 South	02070008	SWM Facility - Ch 3	0.15	0.30	Existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to outfall into existing storm drain system.
WAS-4477	Phase 1 South	02070008	SWM Facility - Ch 3	0.13	0.10	Existing curb within LOD. Potential to outfall into existing storm drain system.
WAS-4478	Phase 1 South	02070008	SWM Facility - Ch 3	0.17	0.41	Existing curb within LOD. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Potential to outfall into existing storm drain system.
WAS-4479	Phase 1 South	02070008	SWM Facility - Ch 3	0.14	0.11	Existing curb within LOD. Potential to outfall into existing storm drain system. This area is located adjacent to MDOT SHA District 03 Access Permit No. 20APMO014XX.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-4481	Phase 1 South	02070008	SWM Facility - Ch 3	0.23	0.42	Existing curb within LOD. Potential to outfall into existing ditch. This area is located adjacent to MDOT SHA District 3 Access Permit No. 20APMO014XX.
WAS-4482	Phase 1 South	02070008	SWM Facility - Ch 3	0.12	0.35	Existing curb within LOD. Potential to outfall with potential storm drain system into existing ditch.
WAS-4483	Phase 1 South	02070008	SWM Facility - Ch 3	0.09	0.13	Existing curb within LOD. Potential to outfall into existing inlet.
WAS-4484	Phase 1 South	02070008	SWM Facility - Ch 3	0.10	0.73	Existing curb within LOD. Potential to outfall with potential storm drain system into existing pond.
WAS-4486	Phase 1 South	02070008	SWM Facility - Ch 3	0.13	0.37	Open space located along the Montgomery Village Avenue Southbound (MD 124) lane. Closed section roadway. Potential facility can outfall into closed storm drain system which appears to be in stable condition and connects to county closed storm drain system located in adjacent residential community.
WAS-4487	Phase 1 South	02070008	SWM Facility - Ch 3	0.04	0.29	Open space located along the Montgomery Village Avenue (MD 124) southbound lane. Closed section roadway. Potential facility can outfall into closed storm drain system which appears to be in stable condition and connects to county closed storm drain system located in adjacent residential community.
WAS-4488	Phase 1 South	02070008	SWM Facility - Ch 3	0.31	0.18	Open space along the Montgomery Village Avenue (MD 124) median. Potential facility can outfall into an existing inlet located median which appears to be in stable condition. Existing inlet connects to inlet located on MD 124 SB which connects to county closed storm drain system located in adjacent residential community. There appears to be a possibility to remove existing curb to allow for more impervious area treatment. Potential tree impacts due to facility construction.
WAS-4489	Phase 1 South	02070008	SWM Facility - Ch 5	0.45	0.21	Open space along the Montgomery Village Avenue (MD 124) median. Potential facility can outfall into an existing manhole located within median which appears to be in stable condition. There appears to be a possibility to remove existing curb along Montgomery Village Avenue southbound side to allow for more impervious area treatment. Potential tree impacts due to facility construction.
WAS-4491	Phase 1 South	02070008	SWM Facility - Ch 3	0.52	0.56	Open space located along the Midcounty Highway (MD 124) median. Potential facility can outfall into an existing inlet located along MD 124 median which appears to be in stable condition. here appears to be a possibility to remove existing curb along MD 124 northbound side to allow for more impervious area treatment. Potential tree impacts due to facility construction.
WAS-4493	Phase 1 South	02070008	SWM Facility - Ch 3	0.19	0.45	Located along the Midcounty Highway southbound. Potential facility can outfall into an existing inlet located along MD 124 southbound side and appears to be in stable condition. Existing inlet connects to county closed storm drain system located in adjacent residential community. Potential tree impacts due to facility construction.
WAS-4494	Phase 1 South	02070008	SWM Facility - Ch 3	0.15	0.38	Located along Midcounty Highway southbound (MD 124) side. Potential facility can outfall into an existing swale. Existing swale appears to be in stable condition. Trees found at the existing swale, but no trees impacted by potential facility footprint.
WAS-4495	Phase 1 South	02070008	SWM Facility - Ch 5	0.34	0.16	Located along the northwest corner of Midcounty Highway southbound and Goshen Road. Potential facility can outfall into an existing channel. Existing channel appears to be in stable condition. Trees found at the existing swale, but no trees impacted by potential facility footprint. This area is located adjacent to MDOT SHA District 3 Access Permit No. 14APMO014XX Goshen Road Improvements.
WAS-4497	Phase 1 South	02070008	SWM Facility - Ch 3	0.22	0.22	Located along Midcounty Highway (MD 124) northbound closed section roadway. Potential facility can outfall into an existing inlet which appears to be in stable condition. The existing inlet outfall may be located within 100-year flood plain. Possible potential tree impacts due to facility construction. This area is located adjacent to MDOT SHA District 3 Access Permit No. 14APMO014XX Goshen Road Improvements.
WAS-4498	Phase 1 South	02070008	SWM Facility - Ch 3	0.09	0.23	Located along Midcounty Highway (MD 124) median. Potential facility can outfall into an existing grate inlet which appears to be in stable condition. Trees found within median, but no trees impacted by potential facility footprint. This area is located adjacent to MDOT SHA District 3 Access Permit No. 14APMO014XX Goshen Road Improvements.
WAS-4499	Phase 1 South	02070008	SWM Facility - Ch 3	0.10	0.19	Located along Midcounty Highway southbound (MD 124) side. Potential facility can outfall into an existing swale which has some erosion. Trees at outfall and possible tree impacts by potential facility footprint. This area is located adjacent to MDOT SHA District 3 Access Permit No. 14APMO014XX Goshen Road Improvements.
WAS-4502	Phase 1 South	02070008	SWM Facility - Ch 3	0.17	0.45	Located along Midcounty Highway southbound (MD 124) side. Potential facility can outfall into an existing inlet which appears to be in stable condition. Tree impacts by potential facility construction.
WAS-4506	Phase 1 South	02070008	SWM Facility - Ch 3	0.19	0.21	Located along Midcounty Highway (MD 124) median. Potential facility can outfall into an existing inlet which appears to be in stable condition.
WAS-4509	Phase 1 South	02070008	SWM Facility - Ch 3	0.17	0.83	Located along Midcounty Highway southbound (MD 124) side. Potential facility can outfall into an existing channel. Existing channel appears to be in stable condition. Tree found at the existing swale. Tree impacts by potential facility construction.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-4513	Phase 1 South	02070008	SWM Facility - Ch 3	0.18	0.31	Existing curb within LOD. Potential to outfall into existing storm drain system.
WAS-4516	Phase 1 South	02070008	SWM Facility - Ch 3	0.20	0.59	Existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to outfall into existing storm drain system.
WAS-4517	Future Phase	02070010	SWM Facility - Ch 3	0.12	0.41	Existing curb within LOD. Potential to outfall into existing inlet.
WAS-4518	Future Phase	02070010	SWM Facility - Ch 3	0.14	0.61	Existing curb within LOD. Potential to daylight outfall into existing wooded channel.
WAS-4519	Future Phase	02070010	SWM Facility - Ch 3	0.22	0.70	Existing curb within LOD. Potential to daylight outfall into existing wooded channel.
WAS-4521	Future Phase	02070010	SWM Facility - Ch 3	0.13	0.98	No existing curb within LOD. Potential to outfall into existing storm drain system.
WAS-4523	Future Phase	02070010	SWM Facility - Ch 3	0.15	0.38	Existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to outfall into existing storm drain system.
WAS-4532	Phase 1 South	02070008	SWM Facility - Ch 3	0.07	0.31	Existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to outfall into existing storm drain system. Per hazmat review, evaluate status of two open cases at the Exxon gas station. This area is located adjacent to MDOT SHA District 3 Access Permit No. 18APMO021XX.
WAS-4533	Phase 1 South	02070008	SWM Facility - Ch 3	0.03	0.78	Existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to outfall into existing storm drain system. Per hazmat review, evaluate status of two open cases at the Exxon gas station. This area is located adjacent to MDOT SHA District 3 Access Permit No. 18APMO021XX.
WAS-4534	Phase 1 South	02070008	SWM Facility - Ch 3	0.09	0.25	Existing curb within LOD. There appears to be a possibility to adjust existing drainage pattern to allow for more impervious area treatment. Potential to outfall into existing storm drain system. This area is located adjacent to MDOT SHA District 3 Access Permit No. 18APMO021XX.
WAS-4601	Phase 1 South	02070008	SWM Facility - Ch 5	0.51	0.19	Open space, adjacent to private residential properties. Small trees may need to be removed for facility construction. Woody vegetation around the outfall.
WAS-4602	Phase 1 South	02070008	SWM Facility - Ch 5	0.35	0.11	Open space adjacent to residential property. Downstream inlet is available for facility outfall and appears to be in stable condition.
WAS-4603	Phase 1 South	02070008	SWM Facility - Ch 5	0.61	0.53	Open Space adjacent agricultural area. Some gravel area found off MD 28 shoulder within the site which may be used by farm owner for staging purpose. Woody vegetation around outfall. Outfall condition could not field verified due to woody vegetation. Previously part of MDOT SHA TMDL Site Search as MO-MP-0106.
WAS-4604	Phase 1 South	02070008	SWM Facility - Ch 5	0.24	0.20	Open space, adjacent to agricultural area. Woody vegetation at outfall. Outfall condition could not be verified due to wooded vegetation. Previously part of MDOT SHA TMDL site search as MO-MP-0106.
WAS-4606	Phase 1 South	02070008	SWM Facility - Ch 3	0.30	0.35	Located within gas line easement area and adjacent to residential development. Wide swale which serves as an outfall appears to be in stable condition. Previously part of MDOT SHA TMDL Site Search as MO-MP-0109.
WAS-4607	Phase 1 South	02070008	SWM Facility - Ch 5	0.32	0.10	Located adjacent to residential property. It appears that the sump is located at the middle of the potential facility location. Potential BMP can be graded as a single facility which can outfall at the ditch that runs along Country Glen Ct. The outfall ditch appears to be in stable condition.
WAS-4609	Phase 1 South	02070008	SWM Facility - Ch 5	0.52	0.14	Located adjacent to agriculture area. The outfall ditch receives flow from the closed stormdrain system which outfalls into riprap. Potential tree impacts for facility construction. Erosion observed in existing ditch beyond SHA ROW. Outfall receiving channel may require additional stabilization and repair. Previously part of MDOT SHA TMDL Site Search as MO-MP-0108.
WAS-4610	Phase 1 South	02070008	SWM Facility - Ch 3	0.21	0.43	Located adjacent to farmland. Potential facility can outfall into existing ditch. Erosion observed in existing ditch. Outfall receiving channel may require additional stabilization and repair. It appears that some portion of site location has been used for adjacent property farm access. Tree impacts possible by potential facility construction.
WAS-4613	Phase 1 South	02070008	SWM Facility - Ch 3	0.23	4.24	Located within median. There appears to be a possibility to adjust existing storm drain configuration to allow for more impervious area treatment. Potential facility can outfall into an existing inlet which appears to be in stable condition. This area is located adjacent to MDOT SHA District 3 Access Permit No. 19APMO03620 (CPSC Park).
WAS-4614	Phase 1 South	02070008	SWM Facility - Ch 5	0.37	0.12	Located adjacent to residential property. Potential facility can outfall into existing ditch. Trees at outfall, but no trees impacted by potential facility footprint. Outfall appears stable.
WAS-4615	Phase 1 South	02070008	SWM Facility - Ch 5	0.36	0.11	Located adjacent to residential property. There appears to be a possibility to remove existing curb to allow for more impervious area treatment. Trees at outfall, but no trees impacted by potential facility footprint. Outfall appears stable.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-4619	Phase 1 South	02070008	SWM Facility - Ch 5	0.38	0.11	Open space adjacent to residential property. Potential facility can outfall into roadway side ditch which appears to be in stable condition. Trees and woody vegetation at outfall ditch, but no trees impacted by potential facility footprint.
WAS-4622	Phase 1 South	02070008	SWM Facility - Ch 5	0.36	0.14	Open space between roadway exit ramp from MD 112 to Esworthy Road and roadway entrance ramp to MD 112 from Esworthy Road located within SHA ROW. Potential facility can outfall into wide swale. End section of roadway culvert located downstream of the facility which also outfalls into this wide swale located under MD 112 is separated and minor outfall erosion observed. Trees located within wide swale at downstream end, but no trees impacted by potential facility footprint.
WAS-4623	Phase 1 South	02070008	SWM Facility - Ch 5	0.27	0.11	Open space adjacent to residential property. Potential facility can outfall into existing ditch which appears to be in stable condition. Existing ditch from SHA ROW outfalls to ditch located along County side roadway. No tree impacts by potential facility footprint.
WAS-4624	Phase 1 South	02070008	SWM Facility - Ch 5	0.35	0.10	Open space adjacent to recreational property. Potential to remove gravel area located next to MD 190 shoulder for facility construction. Potential facility can outfall into existing swale which will discharge to ditch located along the recreational property. No tree impacts by potential facility footprint.
WAS-4625	Phase 1 South	02070008	SWM Facility - Ch 5	0.29	0.13	Open space adjacent to residential property. Potential facility can outlet into an existing inlet. Existing inlet appears to be in stable condition. There appears to be a possibility to remove existing curb to allow for more impervious area treatment. Previously part of MDOT SHA TMDL Site Search as MO-MP-0123.
WAS-4626	Phase 1 South	02070008	SWM Facility - Ch 5	0.72	0.35	Open space located along super elevated roadway draining towards the proposed site, closed section roadway, close to residential property. Potential facility can outlet in to ditch which will daylight upstream of driveway culvert. Driveway culvert covered with the vegetation. There appears to be a possibility to remove existing curb to allow for more impervious area treatment. Large trees located along fence of the farmland. No tree impacts by potential facility construction.
WAS-4627	Phase 1 South	02070008	SWM Facility - Ch 5	0.29	0.19	Open space adjacent to residential property. Potential facility can outfall into an existing inlet. Existing inlet appears to be in stable condition. Large trees located along fence. No tree impacts by potential facility construction.
WAS-4628	Phase 1 South	02070008	SWM Facility - Ch 5	0.48	0.18	Open space adjacent to residential property. Super elevated roadway drains to the potential facility. Potential facility can outfall into wide swale which drains towards the residential property. Trees and woody vegetation within facility area. Possible tree impacts by facility construction.
WAS-4629	Phase 1 South	02070008	SWM Facility - Ch 5	0.38	0.16	Open space adjacent to meadow area. Super elevated roadway drains to the potential facility. Potential facility can outfall into wide swale located within meadow area. Wise swale appears to be in stable condition. Potential BMP is located close to Watkins View Lane which will be constructed in future.
WAS-4630	Phase 1 South	02070008	SWM Facility - Ch 5	0.28	0.17	Open space adjacent to residential property. Potential facility can be outfall at 24" RCP cross culvert located under MD 190. Trees at outfall, but no trees impacted by potential facility footprint. Outfall appears stable.
WAS-4631	Phase 1 South	02070008	SWM Facility - Ch 5	0.13	0.17	Open space adjacent to residential development and meadow area. Potential facility can outfall into an existing inlet which appears to be in stable condition. Trees within facility area. Possible tree impacts by facility construction.
WAS-4632	Phase 1 South	02070008	SWM Facility - Ch 5	0.28	0.22	Open space located adjacent to residential development. Potential facility can outfall into roadway side ditch which appears to be in stable condition. Trees and woody vegetation at outfall ditch, but no trees impacted by potential facility footprint. Previously part of MDOT SHA TMDL Site Search as MO-MP-0135. Per hazmat review, record of HAZMAT spills which may impact groundwater and pollutant flow within proximity to SWM.
WAS-4633	Phase 1 South	02070008	SWM Facility - Ch 5	0.19	0.51	Open space located adjacent to residential development. Culvert located under Beall Spring Road (12" RCP) collects runoff from MD 190 drains to the site area. Culvert is filled with sediment. Potential facility can outfall into roadway culvert which appears to be in stable condition. Previously part of MDOT SHA TMDL Site Search as MO-MP-0130.
WAS-4635	Phase 1 South	02070008	SWM Facility - Ch 5	0.30	0.17	Open space adjacent to residential development. Some portion of MD 190 has existing curb which drains via curb cut to the site area. Potential facility can outfall at 12" CMP pipe located under MD 190. 12" CMP pipe is eroded and undermined at the upstream end which outfalls into an existing brick inlet. Outfall receiving culvert may require additional stabilization and repair. Per hazmat review, record of HAZMAT spills which may impact groundwater and pollutant flow within proximity to SWM.
WAS-4636	Phase 1 South	02070008	SWM Facility - Ch 5	0.52	0.27	Open space adjacent to residential and meadow area. One lane from River Road (MD 190). Potential facility can outfall in existing wide swale. Swale drains towards meadow area which appears to be in stable condition. Trees within facility area. Possible tree impacts by facility construction.
WAS-4637	Phase 1 South	02070008	SWM Facility - Ch 3	0.23	0.15	Open Space located adjacent to residential property. Some portion of River Road and Smokey Quartz Lane intersection has curb at downstream end of the site. Potential facility can outfall into an existing inlet which appears to be in good condition. Existing driveway culvert is located upstream of an existing inlet which is 15" CMP filled with sediment.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-4638	Phase 1 South	02070008	SWM Facility - Ch 3	0.86	0.27	Open Space located between River Road (MD 190) and Swains Lock Terrace Rd. Potential facility can outfall into an existing inlet which appears to be in stable condition. Existing sidewalk may need to be relocated for potential facility construction. Previously part of MDOT SHA TMDL Site Search as MO-MP-0137.
WAS-4639	Phase 1 South	02070008	SWM Facility - Ch 5	1.01	0.15	Open Space located between River Road (MD 190) and Swains Lock Road. Potential facility can outfall into existing ditch which appears to be in stable condition. Existing curb removal may be required to direct runoff towards the proposed facility. Trees and woody vegetation at outfall ditch, but no trees impacted by potential facility footprint. Previously part of MDOT SHA TMDL Site Search as MO-MP-0136.
WAS-4640	Phase 1 South	02070008	SWM Facility - Ch 3	0.47	0.58	Open Space located adjacent to residential property. Potential facility can into an existing inlet which appears to be in moderate condition. Broken bricks at the floor of inlet. Outfall inlet may require additional repair. Existing inlet outfall across MD 190 and sidewalk through end section and the outfall appears to be in stable condition. Trees and woody vegetation at ultimate outfall, but no trees impacted by potential facility footprint.
WAS-4641	Phase 1 South	02070008	SWM Facility - Ch 3	0.32	0.47	Open Space located adjacent to residential property. Potential facility can outfall into existing inlet appears to be in stable condition. Existing inlet outfall across MD 190 and sidewalk through end section and the outfall appears to be in stable condition. Trees and woody vegetation at ultimate outfall, but no trees impacted by potential facility footprint. Two existing inlets which drains to potential site are not in NPDES database. Also, NPDES database shows outfall is located just north of Md 190 which is incorrect. The outfall extends beyond the MD 190 and sidewalk.
WAS-4642	Phase 1 South	02070008	SWM Facility - Ch 5	0.38	0.12	Open Space located between River Road (MD 190) and sidewalk. Potential facility can outfall into an existing wide swale. Existing wide swale appears to be in stable condition. Previously part of MDOT SHA TMDL Site Search as MO-MP-0138.
WAS-4644	Phase 1 South	02070008	SWM Facility - Ch 3	0.30	0.93	Open Space located adjacent to residential development. Potential facility can outfall into an existing sump inlet. Existing inlet manhole cover was sealed and outfall for the existing inlet could not be verified in the field.
WAS-4645	Phase 1 South	02070008	SWM Facility - Ch 3	0.97	0.25	Open space located adjacent to residential development. Existing outfall swale which is an outfall appears to be in stable condition, existing bamboo present in wide swale. The culvert shown under River Road in NPDES database could not located on site. Potential relocation of an existing sidewalk. Previously part of MDOT SHA TMDL site search as MO-MP-0139.
WAS-4646	Phase 1 South	02070008	SWM Facility - Ch 5	0.37	0.11	Open space located between River Road (MD 190) and sidewalk. Existing outfall ditch appears to be in stable condition. Woody vegetation and some trees around outfall. Previously part of MDOT SHA TMDL site search as MO-MP-0140.
WAS-4647	Phase 1 South	02070008	SWM Facility - Ch 3	0.30	0.65	Open space located adjacent to residential properties. Existing inlet appears to be in stable condition which outfalls into 12" RCP culvert located under River Road which outfalls into an existing channel located west of River Road. Existing culvert is partially filled with sediment and outfall channel is eroded. Outfall channel may require additional stabilization. Medium offsite from private residence. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. Previously part of MDOT SHA TMDL site search as MOGr1-RKK-299. No trees may be impacted by potential facility footprint.
WAS-4651	Phase 1 South	02070008	SWM Facility - Ch 3	0.26	1.77	Open space located adjacent to residential development. Closed storm drain system collects roadway drainage from River Road (MD 190). Recent improvements at Elementary school were observed during site visit. Three inlets and one manhole were found which connects to an existing stormdrain system and directs runoff from MD 190 to the facility. Existing manhole which can be potential outfall appears to be in stable condition. small offsite draining from residential community.
WAS-4652	Phase 1 South	02070008	SWM Facility - Ch 5	0.43	0.24	Open space located adjacent to residential property. Existing ditch located along Persimmon Tree Road which can be potential outfall appears to be in stable condition. Per hazmat review, record of HAZMAT spills which may impact groundwater and pollute flow within proximity to SWM.
WAS-4653	Phase 1 South	02070008	SWM Facility - Ch 3	0.14	0.34	Open space located adjacent to residential property. Existing inlet which may be potential outfall is in good condition which outlets across the Falls Road. Medium offsite from adjacent residential community. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility.
WAS-4655	Phase 1 South	02070008	SWM Facility - Ch 5	0.93	0.35	Open space located adjacent to residential development. Existing brick inlet which may be potential outfall located along Newbridge Drive appears to be in stable condition. Brick inlet outlets across the Newbridge drive. Minor erosion around the inlet. Inlet may require additional stabilization. Previously part of MDOT SHA TMDL site search MO-MP-0145.
WAS-4656	Phase 1 South	02070008	SWM Facility - Ch 5	0.49	0.11	Open space located adjacent to residential development. Existing manhole located along the Newbridge Drive can be potential outfall for the facility. There was signs of erosion between the Newbridge Drive and sidewalk. Existing manhole shows signs of erosion. These may require additional stabilization and repair. The 60" RCP from the manhole outfalls into the existing ditch which has erosion.
WAS-4657	Phase 1 South	02070008	SWM Facility - Ch 5	0.60	0.15	Open space adjacent to residential development. Existing swale which may be potential outfall appears to be in stable condition. The culvert shown under River Road in NPDES data shows wrong flow direction. The existing culvert flows from south to north. Previously part of MDOT SHA TMDL site search as MO-MP-0146.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-4658	Phase 1 South	02070008	SWM Facility - Ch 5	0.34	0.10	Open space adjacent to residential development. Existing swale appears to be in stable condition which is an existing outfall and drains to culvert located under MD 190. There is a new construction entrance at the downstream end of site. New construction for residence in progress within site area. The culvert shown under River Road in NPDES data shows wrong flow direction. The existing culvert flows from south to north. Potential tree impact by facility construction.
WAS-4659	Phase 1 South	02070008	SWM Facility - Ch 5	0.47	0.10	Open space located adjacent to residential development. Existing outfall ditch appears to be in stable condition. Woody vegetation observed in the existing ditch. Woody vegetation exists between site area and wooden fence for residential property.
WAS-4660	Phase 1 South	02070008	SWM Facility - Ch 3	1.57	0.30	Open space located adjacent to commercial property. Existing outfall swale appears to be in stable condition.
WAS-5301	Phase 1 South	02070008	SWM Facility - Ch 5	1.06	0.14	Open space located adjacent to residential development. Existing swale appears to be in stable condition which is located within private residential area.
WAS-5302	Phase 1 South	02070008	SWM Facility - Ch 5	0.86	0.13	Open space located adjacent to residential development. Existing outfall swale drains to the existing culvert located under Citizens Lane. Existing swale along Citizens Lane appears to be in stable condition. Minor erosion around existing culvert which may require additional stabilization and repair. Newly planted trees but no trees impacted by potential facility footprint.
WAS-5304	Phase 1 South	02070008	SWM Facility - Ch 5	1.24	0.30	Open space adjacent to high voltage power lines. Existing outfall swale drains to the existing 36" CMP culvert located under MD 118. Existing swale and culvert appear to be in stable condition. Previously part of MDOT SHA TMDL site search as MO-MP-0069.
WAS-5306	Phase 1 South	02070008	SWM Facility - Ch 5	0.70	0.68	Open space located adjacent to institutional property. Existing outfall channel appears to be in stable condition and invert of channel is approximately 5' below from top of the roadway. Large offsite drainage. A bypass system may be required to divert drainage from offsite area in order to qualify for Chapter 5 WQ credit and to reduce the size of a proposed facility. Potential tree impact by facility construction. Potential tree impact by facility construction.
WAS-5307	Phase 1 South	02070008	SWM Facility - Ch 3	0.45	1.12	Open space located adjacent to residential development. Existing outfall swale and culvert appear to be in stable condition. Medium offsite drainage from residential area. A bypass system may be required to divert drainage from offsite area in order to reduce the size of a proposed facility. The flow direction shown for culvert in NPDES database needs to be updated. The culvert flows from west to east. Potential to remove existing curb may be required at the upstream end of the site. Previously part of MDOT SHA TMDL site search MO-MP-0070.
WAS-5308	Phase 1 South	02070008	SWM Facility - Ch 5	0.42	0.57	Open space located within median of MD 119. Existing brick inlet appears to be in moderate condition. Broken bricks found at the inlet floor which may require additional repair. Previously part of MDOT SHA TMDL site search as MOGR1-GRSW-0036.
WAS-5310	Phase 1 South	02070008	SWM Facility - Ch 3	0.24	0.66	Open space in median of Quince Orchard Road (MD 189). Potential facility can outfall into an existing inlet which outfalls into the existing manhole located downstream which continues as a storm drain system. Existing inlet is in the median and appears to be in stable condition. Large offsite drainage draining to existing drainage system. A bypass system may be required to divert drainage from offsite area to reduce the size of a proposed facility. Potential tree impact by facility construction in the median.
WAS-5311	Phase 1 South	02070008	SWM Facility - Ch 5	0.48	0.26	Open space adjacent to residential property. Existing outfall channel appears to be eroded. The culvert located under MD 28 has pipe joint separation right before the channel. Outfall receiving channel and culvert may require additional stabilization and repair. Trees at outfall, but no trees impacted by potential facility footprint. Previously part of MDOT SHA TMDL site search as MO-MP-0089.
WAS-5312	Phase 1 South	02070008	SWM Facility - Ch 5	0.78	0.21	Open space adjacent to institutional property. Existing channel appears to be eroded. The culvert located under MD 28 has pipe joint separation right before the channel. Outfall receiving channel and culvert may require additional stabilization and repair. Trees at outfall, but no trees impacted by potential facility footprint. Previously part of MDOT SHA TMDL site search as MO-MP-0090.
WAS-5313	Phase 1 South	02070008	SWM Facility - Ch 3	0.17	0.86	Open space located adjacent to residential development. Potential facility can outfall into an existing manhole located downstream which continues as a closed storm drain system. Downstream manhole could not be located in the field. Previously part of MDOT SHA TMDL site search as MOGr1-RKK-159. This area is located adjacent to MDOT SHA District 3 Access Permit No. 17APMO01119 (The Chase at Quince Orchard) and 16APMO01416 (MD 28 at Riffle Ford Road Intersection Improvements).
WAS-5314	Phase 1 South	02070008	SWM Facility - Ch 3	0.22	1.05	Open space located adjacent to residential development. Potential facility can outfall into existing inlet which appears to be in stable condition and outfall into manhole located downstream which continues in the closed storm drain system.
WAS-5315	Phase 1 South	02070008	SWM Facility - Ch 3	0.20	0.66	Open space located adjacent to fire station. Easy access, Unobstructed and direct from SHA ROW. Closed section roadway. Potential facility can outfall into existing inlet which appears to be in stable condition and outfall into manhole located downstream which continues in the closed storm drain system.
WAS-5316	Phase 1 South	02070008	SWM Facility - Ch 5	0.62	0.29	Open space located within MD 119 median. Existing outfall inlet appears to be in stable condition.
WAS-5317	Phase 1 South	02070008	SWM Facility - Ch 5	0.75	0.62	Open space located within median of MD 119. Existing inlet which is an outfall appears to be in stable condition. Previously part of MDOT SHA TMDL site search as MO-MP-0071.

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential SWM Facility Type (4)	Potential LOD Area (AC) (5)	Potential IAT for WQ Credit (Pe = 1") (AC) (6)	Comments (7)
WAS-5601	Phase 1 South	02070008	SWM Facility - Ch 3	0.59	0.96	Open Space adjacent to residential property. Potential facility can outfall into existing inlet located along eastbound of Darnestown Road (MD 28) which outfalls into closed storm drain system which appears to be in stable condition.
WAS-5602	Phase 1 South	02070008	SWM Facility - Ch 3	0.43	1.04	Open Space located adjacent to residential property. Potential facility can outfall into existing inlet located along eastbound of Darnestown Road (MD 28) which outfalls into closed storm drain system which appears to be in stable condition.

Table A-6: Water Resources Desktop Evaluation and Field Assessment Summary Table for Stream Restoration Sites

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential LOD Area (acre) (4)	Potential Stream Restoration Length (LF) (5)	Potential IAT for WQ Credit (0.01 acre/LF) (acre) (6)	Comments (7)
MO_00018	Phase 1 South	02070008	19.65	4,343	43.40	Potential access from Falls Rd, Falls Bridge Ln, end of Hall Rd, and Logan Dr. Potential for fish passage at the upstream bridge. Utility crossing and a concrete structure in the channel near upstream limit. Flatter floodplain area with mid-successional riparian forest. Intermittent bedrock outcrops throughout the channel. Low to high erosion with bank height range from 3' to 7'. Sanitary sewer line runs parallel to stream on left floodplain. Incised and over widened channel with actively eroding banks. Lots of sediment movement and bar formation towards downstream section. Multiple outfall channel tributaries to be included in the project limits. LOD has been updated after visual field assessment. Priority rating = High
MO_00029	Other Phase	02070010	16.89	653	6.50	The observed area of stream restoration need include: 530 ft along downstream of Beach Dr + assumed approximately 500 ft of spot treatment along upstream stretch. Site access is along Kensington Pkwy. Recommended stream restoration reach has been greatly reduced due to upstream limits fairly stable conditions about 3' tall banks for the first 300'-400' with boulders rock wall. Medium to large trees along banks with some invasive species. Bank height increases to 5'-6' with some localized erosion. Steeper, eroded, higher banks downstream of Beach Dr. Channel bed consists mainly of cobble and some boulder material. Stream is fairly close to the road. Some areas are lacking riparian trees with potential for tree plantings. Overhead utilities present along the road at upstream end. Multiple exposed utility structures and bridges present along the stream. Only the downstream section of Beach Dr. is proposed as the suitable project reach while spot treatments such as bank protection, tree planting, invasive treatment, etc.) would be more appropriate for the channel upstream of Beach Dr, greatly reducing possible WQ credit. A stream restoration could be performed on the site to allow floodplain connection and promote uplift however major constraints would make this site very costly and difficult. Updated stream length show most reasonable area for restoration.
MO_00047A	Phase 1 South	02070008	21.38	3,839	38.40	Potential site access from Clopper Rd or Gunners Branch Park. Aerial from 2015 shows access for possible sewer line work along most length of the stream. Open valley along the right bank at a portion of upstream, and downstream sections. Middle section is mostly forested. Most of the channel section is incised and disconnected from the floodplain (Type F channel). Areas transitioning to Type C channel with newly formed benches within the over widened Type F channel. Upstream limit of the project is extended to the CSX property. Potential sewer line crossing structure. Clam shells found in the upstream channel section. Gunners Lake located upstream of the project on the other side of the CSX Railroad may cause the H&H analysis process more complicated. Moderate to high erosion with bank height range from 3' to 5'. Highly eroded banks on outer meander bends. Lots of sediment movement and bar formation. LOD has been updated after visual field assessment. Priority rating = High
MO_00051	Phase 1 South	02070008	8.38	1,736	17.40	Potential site access from Little Falls Pkwy. Downstream of Capital Crescent trail is concrete channel. Sanitary sewer line runs along left side of the channel. Low banks just upstream of trail but bank height increases and erosion is noted further upstream. Hard bottom, possibly of bedrock, with high channel banks and over-widened channel observed upstream of Arlington Rd. Mostly forested riparian vegetation along the stream. Spot treatment observed along the channel upstream of the trail. LOD has been updated after visual field assessment. Priority rating = Low
MO_1540045	Phase 1 South	02070008	11.37	3,082	30.80	Site access off Great Seneca Hwy. Upstream section of the mainstem channel is fairly stable with lower bank height of about 1.5' depth and minor erosions. Lower section of mainstem bank height averages about 5' with active erosion, vertical banks and less vegetation on banks. Mainstem channel over widened in many areas and gravel bars formed. Large concrete cross-vane like structure present along mainstem with undercutting behind the structure and structure cracked on top. Steep drop of about 5' presents upstream of this concrete structure. Previous restoration work has been performed along the middle section of the channel and is in poor condition. Highly incised channel with multiple headcuts and active bank erosion throughout upper 2/3 of tributary channel. Up to 10' vertical banks with no vegetation along banks. Hard clay / bedrock present throughout the upstream of tributary channel. Channel slope and

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential LOD Area (acre) (4)	Potential Stream Restoration Length (LF) (5)	Potential IAT for WQ Credit (0.01 acre/LF) (acre) (6)	Comments (7)
						bank height (about 1.5') drops within flat floodplain area downstream. Downstream floodplain consists of wetland area. Along with the full length of the tributary channel, downstream section of the mainstem was identified as suitable project stretch. The site consists of mid-successional forest with invasive species . The most upstream portion that MNCPPC asked to be included is fairly stable with connection to floodplain.
MPAO_0014	Other Phase	02070010	13.97	3,712	37.10	Site access is from Stonegate Swimming Club off Stonegate Dr. Average 4' high banks with active erosions and undercut banks. Highly degraded channel that widens significantly about 300' downstream. Channel transitions to 5'-6' banks downstream. Dominant bank material consists of gravel and silt. Early to mid-successional trees along banks with lots of invasive understory. Gravel and cobble bars formed throughout the stream limit. Exposed manholes and utility crossings. Bedrock outcrops in some areas. Channel characteristics changes along with lower 1/3: comparatively narrow width, lower banks, and smaller material. Along with the full length of the mainstem, two tributaries were identified to add as suitable project stretch. Recommended channel restoration limits have been extended after field evaluation.
MPAO_0015	Other Phase	02070010	3.23	279	2.80	Site access and stockpile off Viers Mill Road. Upstream section is wide but fairly stable without active erosion. Concrete weir and riprap outfall protection placed at dual concrete box culvert outlet. Middle section near culvert remnants is highly eroded. Downstream 1/3 section has very steep slope with tall banks with trees and vegetation on slopes and majority of channel is bedrock outcrops. Streambed is dominant of gravel and cobble material along upstream section. Middle section consists of abandoned road on the right side of the channel, culverts and wall in the channel. A limited length of unstable reach is recommended for stabilization. After field investigation it has been concluded that limited credit that may be obtained from site, limits the site feasibility.
MPAO_0022-Backup	Other Phase	02070010	12.73	3,164	31.60	Potential access from the parking lot located at the end of Lamberton Dr., University Blvd, and Channing Dr located at the upstream limit. Sanitary sewer line runs along the stream. Sandy soil along downstream section. Mostly forested riparian vegetation with potential wetland/open meadow along downstream portion. Potential constructed wetlands present in the left floodplain downstream of the trail bridge. Gravel and clay banks upstream of trail bridge with bank height range from 2'-5'. Evidence of channel lateral transition. Site constraints include potential wetland areas in floodplain, trees on banks, sanitary sewer and park trail. Inline pond located at the downstream end of the project may cause the crediting process more complicated. LOD has been updated after visual field assessment. Priority rating = Medium
MPOC-0009	Phase 1 South	02070008	13.62	3,630	36.30	Potential site access from Rock Elm Way or Goshen Rd. Wide valley and open meadow in downstream section. Upstream section is mostly forested. Most of the channel section is incised and disconnected from the floodplain. 3' to 5' tall banks with active bank erosion along mainstem. Type C channel along upstream section with gravel bars observed on some inner meander bends. Trees, and sanitary sewer line running parallel to stream right bank are main constraints. LOD has been updated after visual field assessment. Priority rating = Medium
MPOC_0006_0010_0011	Phase 1 South	02070008	7.83	1,153	11.50	Potential access from Hillandale Rd. Downstream section of MOPC0011 and all of the MPOC0010 channels are concrete-lined channel (10'-12' bottom width and 6'-7' height). Spot treatment performed in the past along MPOC0006 and upstream section of MPOC0010. Bank erosion along end of MPOC_0006 and middle section of MPOC_0011. Paved trail is located along left bank of MPOC0006 and MPOC0010. LOD has been updated after visual field assessment. Priority rating = Low
MPOC_0008	Phase 1 South	02070008	13.14	2,716	27.20	Potential access from Travilah Rd. and Glen Rd. Forested riparian area. Bedrock presents through most of the channel section and appears to help holding vertical grade. Moderate to high erosion with an average bank height of 3.5'. Majority of channel section is incised and disconnected from the floodplain. Confined and moderately steep valley. Channel widens towards confluence with Sandy Branch. LOD may extend to multiple private properties. LOD has been updated after visual field assessment. Priority rating = Low
PG_00079-Backup	Other Phase	02070010	7.59	1,723	17.20	Potential site access from the end of Valley Park Rd., intersection of Dateleaf Ave. and Blacklog St. Located North of swimming pool, and Dateleaf Ave. located just South of the swimming pool. Sanitary sewer is located along right side of the channel. 5' - 10' tall stream banks. Highly eroded channel banks with over widened channel and large debris jam causing to form large bars. Small to medium trees on banks with many exposed roots and fallen trees. Tributary has steep drop from outfall and is highly incised down to clay layer (approximately 5' bank height). Concrete channel starts at the downstream limit. LOD has been updated after visual field assessment. Priority rating = Medium

Site Name (1)	JPA Phase (2)	Federal 8-Digit HUC (3)	Potential LOD Area (acre) (4)	Potential Stream Restoration Length (LF) (5)	Potential IAT for WQ Credit (0.01 acre/LF) (acre) (6)	Comments (7)
SSS_150023	Other Phase	02070010	8.73	1,795	17.90	Potential access from Glenallan Ave. Stream is located within the forested park area and adjacent to trails. An average bank height of 3' along upstream section and it increases to 4'-6' along downstream section with more entrenched channel. Mostly stable banks with some bank erosions along outside meander bends along the middle section of the channel, and a section downstream of the trail bridge. Impacts to the trees and lack of staging/storing area are the main constraints. LOD has been updated after visual field assessment. Priority rating = Low
SSS_160023-Backup	Other Phase	02060006	13.97	2,651	26.50	Potential site access from John Hanson Hwy, and Cleary Ln. Access from the highway requires removal of a section of fence and guardrail. Some Clam Shells noted at upstream section. Unstable, incised channel with no woody riparian vegetation. Flatter wide valley with mostly grasses, invasives, and herbaceous riparian vegetation. Low to high erosion with an average bank height of 4'. Majority of floodplain and channel is composed of clay material. Multiple chute cutoff channel formed towards upstream floodplain area. Multiple headcuts along clay channel. Possible sewer line crossing observed towards the downstream section. LOD has been updated after visual field assessment. Priority rating = High
SSS_160065_160066	Other Phase	02070010	17.66	1,778	17.80	A portion of stream at SSS-160065 site section has been recently restored and should be removed. Opportunities still available at SSS-160066. Potential access for site SSS-160066 is from Greenway Dr. and Tanglewood Dr. Flatter floodplain area with scattered large size trees. Considerable amount of trash observed that was washed down from upstream channel. Low to moderate erosion with banks in average 3 ft. LOD has been updated after visual field assessment. Priority rating = High

I-495/I-270 P3 Compensatory SWM Program

SWM Desktop and Field Evaluation Protocol

1.0 PURPOSE

The purpose of this protocol is to define consistent desktop and field evaluation (DFE) procedures for assessing compensatory stormwater (SWM) opportunities that meet water quality (WQ) requirements (P_E of 1.0 inch) for the MDOT SHA I-495 & I-270 Public-Private Partnership (P3) Program. Since multiple GEC consultant teams are assigned to DFE's, it is critical that the factors considered in making recommendations for sites are applied in a consistent manner. The decision-making process must be clearly documented, and the key considerations identified for future use.

The P3 compensatory SWM DFE process involves multiple steps, described in the following sections: File Management & Version Control, Planning and Preparation, Performing Evaluations, and Recording Results. The initial DFE evaluations are to be GIS-based investigations using ESRI's ArcGIS Desktop software, (Version 10.5 and later) augmented by field investigations. Important guidance and procedures for the GIS-based investigations are provided in the supplemental document, **I-495_I-270 P3 Compensatory SWM Site Search GIS Workflow.docx**, hereafter referred to as "**GIS Workflow**."

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\Engineering\D. Reports - White Papers\Site Search Protocol\I-495_I-270 P3 Compensatory SWM Site Search GIS Workflow.docx

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pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/D{07cc6eee-6127-4252-9747-02f4564f0481}

At the onset of this compensatory SWM site search, a target Impervious Area Requiring Treatment (IART) has been defined for each of the two (2) watersheds located within the project corridor. For the Washington Metropolitan Area Watershed (02-14-02), the initial assessment of IART is 340 acres with a target IART >425 acres. For the Patuxent River Watershed (02-13-11), the initial assessment of IART is 32 acres with a target IART >40 acres. To facilitate this task, the P3 corridor and phased construction sections have been divided into working zones and assigned to each consultant team. Additional reevaluation efforts are made within 0.5 mile from MLS limit of disturbance to find SWM sites.

The P3 compensatory SWM consultant teams include:

1. NMP Engineering Consultants (NMP)
2. RJM Engineering (RJM)
3. WSP (WSP)
4. Whitman, Requardt & Associates (WRA)

2.0 FILE MANAGEMENT & VERSION CONTROL

File management and version control are important aspects of maintaining consistency and accuracy throughout the task. This task will require multiple GEC member firms to work collaboratively and share files in order to maintain efficiency. For these reasons ALL pertinent files, as listed in the following discussion, shall be maintained in ProjectWise. To be able to track progress and to back up critical work performed within the base files (controlled by NMP) and the working files of each firm, when uploading files to ProjectWise, a new version letter, number, or date from the current version will be assigned to each individual file. Earlier versions will not be overwritten or deleted. Refer to Section 4.0 of the **GIS Workflow** for details.

Note that the hot links in this protocol, formatted in **bold underline**, are "ctrl-clickable." The ProjectWise addresses are also included with certain hot links.

The ProjectWise location for all files to be used for this GIS investigation is as follows:
Parent folder: **E. GIS**
URL
pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\
URN
pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{a5630a07-f59d-4dc5-add3-0dd0e69313f4}/

Subfolder: **gisdata**
URL
pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\
URN
pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{32199d4e-18ee-41ea-b4d9-6596274a2a54}/

Individual folders under this folder are assigned to each consulting team and house the working GIS map exchange document (*.mxd) and the working geodatabases (*.gdb) for each assigned zone. These *.mxd and *.gdb files are editable by the respective consulting teams. These shall be maintained by each consultant.

The **gisdata** subfolder contains the following subfolder which houses the zipped versions of base file geodatabases (*.gdb) to be used by ALL consultants for the DFE evaluations.

Subfolder: **basedata**

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\basedata\

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{21ee2020-344f-439b-ab6b-0fe567987b1b}/

A versioned spreadsheet is stored in this subfolder to document the data resources that have been integrated into the geodatabases and the date for when each base file data was last updated.

Compensatory_SWM_Review_Basedata_Contents.xlsx

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\basedata\Compensatory_SWM_Review_Basedata_Contents.xlsx

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/D{7a653a7d-151a-46bc-a9bd-c8df81ffa419}

All of the **basedata**, as listed in the above spreadsheet, to be used for the site searches is incorporated into the versioned (zipped) geodatabase. This is a living geodatabase to be managed and edited by NMP only. NMP will notify the compensatory SWM consultant firms when a new version has been created on ProjectWise for download and extraction for use.

Compensatory_SWM_Review_Basedata.gdb.zip

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\basedata\Compensatory_SWM_Review_Basedata.gdb.zip

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/D{bb5cf365-d645-4b2e-bf9d-28eb5c474f7c}

3.0 PLANNING & PREPARATION

1. Coordination and Training:

- NMP will provide training to consultants describing the step-by-step process of using, reviewing and editing the data and grids provided by MDOT SHA and others. Consultant GIS leads and staff performing the actual task must contact NMP for GIS training.
- Information fields in project-associated databases and the methodology for completing the updates necessary for submittal will be explained during training.
- The applicable base data gathered and referenced are from a variety of resources and local, state, and federal government agencies and is anticipated to be updated as noted below.

2. The **Compensatory_SWM_Review_Basedata.gdb** file is a dynamic GIS database that will be updated regularly. Any additional information determined necessary for completing the task will be provided to consultant teams as it becomes available. The consultants must communicate any requests for additional base data to NMP.
3. Weekly Microsoft Teams meetings will be conducted to relay additional data, guidance, and instruction and to resolve any GIS and technical issues that may arise.
4. Use of GIS and geodatabases under the development and control of multiple disciplines outside of the P3 compensatory SWM Team is required. Accessing and linking to those geodatabases for the compensatory SWM task is managed through a ProjectWise data management utility.

Data Management

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\Data Management\

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{9ed8b0e4-765b-45c3-ba5f-67aced44f162}/

Subfolder: Discipline LOD Databases

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\Data Management\Discipline LOD Databases

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/D{918525f3-a5be-405e-8b98-bbfaaf3fdc5c}

Subfolder: Discipline basedata

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\OP3\Documents\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\Data Management\Discipline basedata

4.0 GENERAL CONSIDERATIONS FOR PERFORMING EVALUATIONS

Refer to the **GIS Workflow** for details in performing DFE evaluations.

1. SWM Site Search areas have been defined to be outside of the P3 Limit of Disturbance (LOD), in the Washington Metropolitan and Patuxent River Watersheds. The watersheds cover parts of Montgomery, Prince George's, Howard, Anne Arundel, Calvert, and Charles Counties. Investigations shall be performed within MDOT SHA right-of-way and state-owned properties to the maximum extent possible before searching in non-MDOT SHA right-of-way areas.
2. Navigate the SWM Site Search GIS data in accordance with this document and the GIS Workflow.
3. MDE SWM Chapter 3 and Chapter 5 facilities are allowed for meeting the WQ requirements. Quantity control for compensatory SWM is not required.
4. Virtual "walk-through" screening: Consultants shall evaluate MDOT SHA-owned impervious area (or other potential impervious area) within the provided zones. This is done by "walking" the areas in GIS and locating sites where impervious runoff can be collected and treated. The following describes the process and features to be referenced during this initial assessment.
    - Features to avoid to the maximum extent possible: Potential sites shall be avoided if they include features, listed but not limited to below:
        i. partially to completely wooded sites where the Best Management Practice (BMP) footprint would be 30% or more wooded;
        ii. steep fill slopes unsuitable for a BMP;
        iii. existing BMPs and their drainage areas;
        iv. hazardous soils or contaminated sites;
        v. culturally sensitive sites;
        vi. perennial or intermittent waterways or mapped wetlands (both DNR and NWI layers) or floodplains which would conflict directly with a new SWM BMP (not including the outfall);
        vii. MDOT SHA NPDES and TMDL sites (constructed);
        viii. BMP retrofits (not to be considered);
        ix. P3 On-site SWM sites;
        x. private property;
        xi. toll roads; or
        xii. other prohibitive feature or characteristic.
    - Features requiring additional consideration: For sites not impacted by the "features to avoid", additional criteria, listed but not limited to below, shall be assessed and any possible issues to be explored during the field investigation stage.
        i. site accessibility for construction and maintenance;
        ii. available right-of-way;

iii. highway safety grading limits;
iv. adequate site outfall;
v. hazardous/contaminated soils;
vi. future development and community planning;
vii. significant utility conflicts;
viii. proximity to airports (MAA criteria for SWM); or
ix. other limiting conditions.

- Additional criteria not included in the above listings shall be evaluated as well as deemed necessary by the consultants and the NEPA team and other disciplines. Sites that shall clearly require obtaining additional right-of-way shall be clearly flagged in the data comments.
- Removal of impervious areas, such as within MDOT SHA park and rides and shoulders, may be an option in meeting SWM WQ requirements.
- Excess state-owned land may be available for P3 compensatory SWM use.
- Consultants shall request input from OP3 water resources managers regarding any questionable sites.

5. When a potential site is identified, a BMP LOD "polygon", along with polygons for drainage areas and impervious areas, shall be drawn by the consultant and the pertinent data fields in the respective attributes table completed according to Section 5.0 in the **GIS Workflow**. The identification of initial feasibility (IIF) BMPs shall be placed as features in the Geodatabase Feature Classes embedded in the respective SWM Search geodatabases.
   - Naming convention for each SWM Site within the Washington Metropolitan (WAS) and Patuxent (PAX) watersheds is as follows, per respective firm:

Firm	WAS - Sites	PAX - Sites	Example Name
RJM	0001 -2000	0001 -2000	WAS-0001; PAX-2000
WRA	2001 - 3000	2001 - 3000	WAS-2001; PAX -3000
WSP	3001 - 4000	3001 - 4000	WAS-3001; PAX-4000
NMP	4001 - 5000	4001- 5000	WAS-4001; PAX-5000

6. Each firm shall conduct an internal quality assurance/quality control (QA/QC) of the selected sites prior to requesting issuance of property owner notifications for non-invasive / invasive field work and distribution to other disciplines for additional feasibility reviews. The QA/QC is to be tracked using the Site_Status Field in the respective firm's OP3_SWM_Potential_Site feature classes. The site status settings are: working, vetted, NEPA, published, and dropped. Refer to Section 3.1. of the **GIS Workflow** for detail descriptions and additional guidance.
   - Recording and tracking using the Site_Status Field are dynamic efforts as selected sites are QA/QC'd internally and externally (outside of the P3 compensatory SWM team). For example, when a site moves from 'working' status to 'vetted' status, it has the potential to be re-assigned to 'working' status during the multi-disciplinary reviews and internal QA/QC and will require further reviews.
   - Comments are critical to document decision-making for site selection and through the vetting and review processes, both internally and externally. Use of the Comments Field in the

respective firm's OP3_SWM_Potential_Site feature classes is required. Where character limitations in the field exist, an alternative document shall be prepared and made available for others.

- A Site_History geodatabase table has been developed to record the history of the decision-making process for each site. Details of how this document may be added or accessed within the GIS network are found in Section 3.5 of the **GIS Workflow**.

7. With the approval of the OP3 water resources managers, request distribution of non-invasive site access notifications to property owners adjacent to IIF BMP locations and if within 25 feet of the P3 LOD or BMP LOD, where applicable. Notifications shall be made for IIF BMPs on a weekly basis in accordance with the property owner notification team.
8. Non-invasive "drive-by" field investigations or site visits within MDOT SHA right-of-way do not require property owner notifications.
9. If the field investigation will be conducted along a roadway with posted speeds greater than 50 mph, and for a time greater than 15 minutes, maintenance of traffic (MOT) will be required. A request for MOT will be made to the appropriate MDOT SHA P3 team to coordinate.
10. Within 1 week (or time determined by MDOT SHA P3 real estate team) of property owner notification of IIF BMPs submission, complete additional field investigation of sites to further assess:
    i. access;
    ii. obstructions;
    iii. confirmation of and/or changes in land use;
    iv. confirmation of and/or changes in impervious areas;
    v. confirmation of and/or changes in drainage patterns;
    vi. confirmation of and/or presence of environmental features;
    vii. confirmation of and/or presence of utilities; and
    viii. use of area by adjacent property owners or the local community.

11. Complete IIF BMP Field Investigation Form: **Field Form**.
    URL
    pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\Engineering\D. Reports - White Papers\Field Form\I-495_I-270 P3 Compensatory SWM Site Search Field Form.xlsx
    URN
    pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/D{e9fc9327-ab51-4c8a-9282-718306b8e102}
    Request additional investigation by OP3 NEPA/environmental and utilities teams to assess further impacts.

12. Concurrently with review by NEPA, environmental and utilities teams of probable feasibility (PF) of BMP implementations, identify preliminary drainage areas, on-site (MDOT SHA-owned), and off-site impervious area treated, along with potential facility types and footprints, and LODs as described in the **GIS Workflow**.
13. Assign each PF BMP a site number using the following numbering scheme: Watershed – Site Number (4 digit). For example, WAS-0001 is Site 1 in the Washington Metropolitan watershed. Consultant firms will be assigned with the range of numbers, in 1000 increments, to use.

5.0 RECORDING RESULTS

Consultants should follow the protocol set forth in this document and in the **GIS Workflow** when preparing and recording the results of the DFE. The following is a general list of the main fields to be included in the DFE data package for distribution to the P3 Construction Contractor.

1. The results of the DFE are to be compiled as a listing of PF BMPs provided in GIS and tabular formats with the primary information including the IIF BMP LOD "polygon," the PF BMP drainage area and impervious area and PF BMP footprint as described in the **GIS Workflow**.
2. Update compensatory SWM DFE in the working geodatabases using the various fields in the attributes tables as defined in the GIS Workflow.

I-495/I-270 P3 Compensatory SWM Program

WQ Stream Desktop and Field Evaluation Protocol

1.0 PURPOSE

The purpose of this protocol is to define consistent desktop and field evaluation (DFE) procedures for assessing compensatory stream site opportunities to meet water quality (WQ) requirements for the MDOT SHA I-495 & I-270 Public-Private Partnership (P3) Program. The decision-making process must be clearly documented, and the key considerations identified for future use.

The P3 Compensatory WQ Stream Site DFE process involves multiple steps, described in the following sections: File Management & Version Control, Performing Evaluations and Recording Results. The initial DFE evaluations are to be GIS-based investigations using ESRI's ArcGIS Desktop software, (Version 10.5 and later) augmented by field investigations. Important guidance and procedures for the GIS-based investigations are provided in the supplemental document, I-495 I-270 P3 Compensatory WQ Stream Site Search GIS Workflow.docx, hereafter referred to as "**GIS Workflow**."

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\Engineering\D. Reports - White Papers\Site Search Protocol\I-495_I-270 P3 Offsite SWM Site Search GIS Workflow.docx

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/D{07cc6eee-6127-4252-9747-02f4564f0481}

2.0 FILE MANAGEMENT & VERSION CONTROL

File management and version control are important aspects of maintaining consistency and accuracy throughout the task. To maintain consistency with the offsite SWM search, ALL pertinent files, as listed in the following discussion, shall be maintained in ProjectWise. To be able to track progress and to back up critical work performed within the basefiles (controlled by NMP) and the working files, when uploading files to Projectwise, a new version letter, e.g. A, B, etc., will be assigned to each individual file. Earlier versions will not be overwritten or deleted. Refer to Section 4.0 of the **GIS Workflow** for details.

Note that the hot links in this protocol, formatted in **bold underline**, are "ctrl-clickable." The ProjectWise addresses are also included with certain hot links.

The ProjectWise location for all files to be used for this GIS investigation is as follows:
Parent folder: **E. GIS**
URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{a5630a07-f59d-4dc5-add3-0dd0e69313f4}/

Subfolder: **gisdata**
URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{32199d4e-18ee-41ea-b4d9-6596274a2a54}/

The **gisdata** subfolder contains the following subfolder which houses the zipped versions of base file geodatabases (*.gdb) to be used by ALL consultants for the DFE evaluations.

Subfolder: **basedata**
URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\basedata\

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{21ee2020-344f-439b-ab6b-0fe567987b1b}/

A versioned spreadsheet is stored in this subfolder to document the data resources that have been integrated into the geodatabases and the date for when each base file data was last updated.

Compensatory_SWM_Review_Basedata_Contents.xlsx
URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3- Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\basedata\Compensatory_SWM_Review_Basedata_Contents.xlsx

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/D{7a653a7d-151a-46bc-a9bd-c8df81ffa419}

All of the **basedata**, as listed in the above spreadsheet, to be used for the site searches is incorporated into the versioned (zipped) geodatabase. This is a living geodatabase to be managed and edited by NMP only. NMP will notify the consultant firms when a new version has been created on Projectwise for download and extraction for use.

Compensatory_SWM_Review_Basedata.gdb.zip

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\basedata\Compensatory_SWM_Review_Basedata.gdb.zip

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/D{bb5cf365-d645-4b2e-bf9d-28eb5c474f7c}

3.0 GENERAL CONSIDERATIONS FOR PERFORMING EVALUATIONS

Refer to the **GIS Workflow** for details in performing DFE evaluations.

1. The site search begins with evaluation of sites that were screened as part of the P3 site search for mitigation efforts performed by others for the 1-495/I-270 P3 project. The consultant (WSP) shall evaluate the GIS layers created under the stream mitigation site search efforts and the data recorded in the “Stream Mitigation Field Site Assessment Form”. The notes taken during these efforts shall help in determining initial assessment of the site for WQ credit feasibility. The search shall be focused within the Washington Metropolitan and Patuxent River Watersheds.
2. Navigate the Compensatory WQ Stream Site Search GIS data in accordance with this document and the GIS Workflow.
3. The following describes the process and features to be referenced during the initial assessment.
   - Features requiring consideration: criteria listed but not limited to below, shall be assessed and any possible issues to be explored during the field investigation stage.
     i. site accessibility for construction and maintenance;
     ii. significant utility conflicts;
     iii. impacts to forested riparian buffer;
     iv. private property;
     v. confined valley with steep slopes (constructability);
     vi. private property structures within floodplain;
     vii. in-line downstream SWM facilities;
     viii. culturally sensitive sites;
     ix. other limiting conditions.

   When a potential site is identified, an LOD “polygon”, along with an existing stream alignment displaying limits of stream restoration shall be drawn by the consultant and the pertinent data

fields in the respective attributes table completed according to Section 3.0 in the **GIS Workflow**. The identification of initial feasible LOD shall be placed as features in the Geodatabase Feature Classes embedded in the Compensatory WQ Streams geodatabase.

4. Once initial desktop feasibility is concluded, the consultant firm shall perform the visual field assessment to evaluate the site condition and feasibility of obtaining WQ credit if a stream restoration is completed. The consultant firm performing the investigations shall verify that right of entry agreements are active within the parcels required to be accessed to complete the visual field assessment. Considerations to be evaluated during the site visual assessment include but are not limited to:
   i. Site access;
   ii. Utility conflicts;
   iii. Potential permitting issues;
   iv. Vertical stability/bank erodibility;
   v. Riparian Vegetation;
   vi. Debris/Channel Blockage;
   vii. Recommended limits of restoration;
   viii. General remarks.

5. The firm shall conduct an internal quality assurance/quality control (QA/QC) of the selected sites prior to requesting issuance of property owner notifications for non-invasive / invasive field work and distribution to other disciplines for additional feasibility reviews. The QA/QC is to be tracked using the Site_Status Field in the respective firm's OP3_Stream_Potential_Site feature classes. The site status settings are: working, vetted, NEPA, published, and dropped. Refer to Section 3.1. of the **GIS Workflow** for detail descriptions and additional guidance.
   - Recording and tracking using the Site_Status Field are dynamic efforts as selected sites are QA/QC'd internally and externally (outside of the P3 Offsite SWM team). For example, when a site moves from 'working' status to 'vetted' status, it has the potential to be re-assigned to 'working' status during the multi-disciplinary reviews and internal QA/QC and will require further reviews.
   - Comments are critical to document decision-making for site selection and through the vetting and review processes, both internally and externally. Use of the Comments Field in the respective firm's OP3_Stream_Potential_Site feature classes is required. Where character limitations in the field exist, an alternative document shall be prepared and made available for others.
   - A Site_History geodatabase table has been developed to record the history of the decision-making process for each site. Details of how this document may be added or accessed within the GIS network are found in Section 3.3 of the **GIS Workflow**.
6. With the approval of the OP3 water resources managers, request distribution of non-invasive site access notifications to property owners adjacent to stream sites locations and if within 25 feet of the LOD, where applicable.
7. Site visits within MDOT SHA right-of-way do not require property owner notifications.

8. If the field investigation will be conducted along a roadway with posted speeds greater than 50 mph, and for a time greater than 15 minutes, maintenance of traffic (MOT) will be required. A request for MOT will be made to the appropriate MDOT SHA P3 team to coordinate.
9. For sites that a right of entry is not active and/or property notifications have not sent from previous stream mitigation efforts, within 1 week (or time determined by MDOT SHA P3 real estate team) of property owner notification, complete field investigation of site.
10. Complete Stream Field Assessment Form: **Field Form**.

    URL

    pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\Engineering\D. Reports - White Papers\Field Form\I-495_I-270 P3 Compensatory WQ Stream Site Search Field Form.docx

    URN

    pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/D{9a23630e-9877-4786-9789-99d7da169209}

Request additional investigation by OP3 NEPA/environmental and utilities teams to assess further impacts.

4.0 RECORDING RESULTS

Consultants should follow the protocol set forth in this document and in the **GIS Workflow** when preparing and recording the results of the DFE.

1. The results of the DFE are to be compiled as a listing of Stream Restoration Sites provided in GIS and tabular formats with the primary information including the stream restoration LOD "polygon" and the proposed stream restoration limits as described in the **GIS Workflow**.
2. Update P3 Compensatory WQ Stream Site DFE in the working geodatabases using the various fields in the attributes tables as defined in the GIS Workflow.

I-495/I-270 P3 Compensatory SWM Program

WQ Stream Sites Desktop Evaluation & GIS Workflow

1.0 PURPOSE

The purpose of this document is to define the procedure for the GIS aspects of the desktop evaluation portion of the compensatory stormwater management (SWM) stream restoration site search. This protocol is intended to be a supplement to the I-495/I-270 P3 Compensatory WQ Stream DFE Protocol.

2.0 PROJECT DATA

Please see the I-495/I-270 P3 Compensatory WQ Stream DFE Protocol for the project data workflow. Below are the ProjectWise links to the folders (in bold-type) of project data to be used for the compensatory SWM searches.

Parent folder: E. GIS

URL

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{a5630a07-f59d-4dc5-add3-0dd0e69313f4}/

Subfolder: gisdata

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3- Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{32199d4e-18ee-41ea-b4d9-6596274a2a54}/

Subfolder: basedata

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3- Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\basedata\

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{21ee2020-344f-439b-ab6b-0fe567987b1b}/

Versions of the spreadsheet (Compensatory_SWM_Review_Basedata_Contents.xlsx) are saved in the basedata folder to document the data resources that have been integrated into the corresponding versions of the basedata geodatabases.

3.0 TEAM GEODATABASE OVERVIEW

This section highlights the Stream site selection team database, the feature classes in those databases, and the intended use of them. Team geodatabases on ProjectWise will be "exported to create a local managed copy," on the user's computer and locked on ProjectWise. Users will "Update the Server Copy" at the end of every day that worked is performed. A new ProjectWise version of the team database will be created on a weekly basis to maintain the file history in ProjectWise. Each team database will be imported on Fridays to allow for updates and merging by the GIS data manager.

3.1 OP3 Stream Potential Site (OP3_Stream_Potential_Site) GIS Feature class

Overview

For the desktop evaluation the OP3_Stream_Potential_Site feature class will store the Limit of Disturbance (LOD) of each proposed stream restoration site for water quality treatment.

Data Editing

Upon the review of each grid, the user performing the desktop evaluation will open an editing session and "draw" a conservative proposed stream restoration LOD and update the following bulleted fields of the attributes table within the feature class:

- **OBJECTID**
  - This field presents the serial number of stream sites. User will enter a unique ID for each stream site.
- **SHAPE**
  - This field presents the type of shape of the LOD.
- **SHAPE_LENGTH**
  - This field presents the total length of the LOD.
- **SHAPE_AREA**
  - This field presents the total area of LOD.

- **STREAM_LENGTH**
  - This field presents the total existing length of potential stream restoration in feet.
- **DESIGN_SUBCATEGORY** - Domain D_Desg_Subcategory
  - This field presents a dropdown menu with an extensive list of values.
  - For consistency all the options for different SWM BMP are included in this database.
  - The different design subcategory has been set to stream restoration for this database.
- **COUNTY_CODE –** Domain D_Cnty_Code
  - This field presents a dropdown menu with a list of counties in Maryland
  - It will be up to the user to choose the appropriate county where the proposed stream channel is located.
- **SITE_NAME**
  - Name the stream sites based on Stream Mitigation Site Search stream ID. No site name will be repeated.
  - Assign a name with combined Stream IDs when multiple channels are recommended as one project.
- **DRAINAGE_AREA**
  - This field presents the total drainage area in sq. mi. at the downstream point of investigation.
- **IMPERVIOUS_AREA**
  - This field presents the total impervious area in acres within the drainage area.
- **MIN_EQUIV_IMP_CREDIT**
  - This field presents the minimum estimated equivalent impervious credit in acres for the stream restoration project based on the rate of 0.01 acres/ft for all sites.
- **PLANNING_EQUIV_IMP_CREDIT**
  - This field presents the estimated equivalent impervious credit in acres for the stream restoration project based on latest MDE equivalent impervious area stream restoration planning rates.
  - Equivalent impervious acre credit rate applied for Coastal plain geographic region is 0.02 acres/ft whereas the same for non-coastal plain region is 0.03 acres/ft.
- **SOURCE** – Domain P3_Source
  - This field presents the user with a dropdown list of three values. It will be up to the discretion of the user to choose and populate the appropriate value.
  - List of Values: “Excess Land”, “TMDL Site Search,” or “P3 Site Search.”
- **MDE_6DIGIT** – Domain P3_MDE6Digit
  - This field is to be used to enter Maryland 6-digit watershed ID for the stream restoration project.

- **MDE8_NAME** – Domain P3_MDE8NAME
  - This field presents a dropdown menu with a list of Maryland 8-digit watershed name.
  - It will be up to the user to choose the appropriate watershed where the proposed stream restoration is located.
- **MDE_8DIGIT** – Domain P3_MDE8Digit
  - This field is to be used to enter Maryland 8-digit watershed ID for the corresponding Maryland 8-digit watershed name selected in the "MDE8_NAME" field.
- **PHYSIOGRAPHIC_REGION** – Domain P3_PhysiographicRegion
  - This field presents a dropdown menu with a list of Physiographic Regions in Maryland.
  - It will be up to the user to choose the appropriate Physiographic Region where the proposed stream restoration is located.
- **PROP_NOTIFICATION_REQUIRED** – Domain Yes/No
  - This field presents the user with a dropdown list of Yes and No. It is up to the user to decide if this site requires property owners to be notified for field inspections.
- **SITE_STATUS** – Domain P3_SiteStatus
  - This field presents the user with a dropdown list of various site status. It is up to the user to choose the appropriate site status.
  - List of Values:
    - "1. Working" – Data has been created and/or under QC review
    - "2. Vetted" – Data has been internally reviewed
    - "3. NEPA" – final vetting has been done (take into consideration all the data from all disciplines) and has been incorporated into NEPA assessments
    - "4. Published" – Data has been published/released in the JPA, FEIS or other public documentation
    - "5. Dropped" – Data dropped, please add reason to NOTES field
- **ROW_NEEDED** – Domain Yes/No
  - This field will present the user with a dropdown list of Yes and No. It is up to the user to decide if additional ROW or an easement would be need for the feature.
- **INTERNAL_QAQC** – Domain Yes/No
  - This field will present the user with a dropdown list of Yes and No. It is used to track if an internal review of the site has taken place.
- **COMMENTS**
  - This field is to be used for general comments or to elaborate on the design subcategory selection. Please enter very detailed comments in this section. The

consultant is limited to 250 characters. Avoid redundant or obvious word choice. Please be clear and understandable and make use of the space available.
    - If applicable, new, more detailed comments should be added per the results of the field investigation.
- **DATE_UPDATED** – Date
    - This field is to be used to keep track of when the LOD was last updated or the last status change. If the LOD has been updated or the status has changed update the data to reflect the most recent date of a change.
- **DATE_UPLOADED** – Date
    - This field is to be used to keep track of when the LOD was last uploaded.

3.2 OP3 Potential Stream Limits (OP3_Potential_Stream_Limits) GIS Feature Class

Overview

The proposed limits of restoration based on assessment of site for maximum water quality credit and uplift.

Data Editing

Upon the desktop review, a possible limits of stream restoration are established. The limits are revised on the field and adjustments are made based on the visual observations.

- **SITE_NAME**
    - This name will match the corresponding field in the OP3_Stream_Potential_Site feature class.

3.3 Site History (SITE_HISTORY) Geodatabase Table

Overview

For the desktop evaluation the ***SITE_HISTORY*** table will store the history of each site. Any status change or geometry change to an LOD after creation should have a corresponding entry in this table.

Data Editing

Upon a status change or geometry change to an LOD, the user performing the desktop evaluation will open an editing session and add a record to the table and update the following bulleted field within the table:

- **SITE_NAME**
    - This name will match the corresponding field in the OP3_Stream_Potential_Site feature class.
- **UPDATE_TYPE** – Domain P3UpdateType
    - This field will present the user with a dropdown list with two options, LOD or Status

- **SITE_STATUS_UP** - Domain P3SiteStatus
    - This field will present the user with a dropdown list with the SITE_STATUS options from section 3.1. If the update is an LOD update leave this null. If this a status update, select the status the LOD is moving to.
- **DATE** – Date
    - This field is to be used to keep track when the update occurred. Enter the date of the change being made.
- **DESC**
    - This field is to be used to describe why the change is being made to the status or LOD.

I-495/I-270 P3 Compensatory SWM Program

Desktop Evaluation - GIS Workflow

1.0 PURPOSE

The purpose of this document is to define the procedure for the GIS aspects of the desktop evaluation portion of the compensatory stormwater management (SWM) site search. Since multiple GEC consultant teams are assigned to Desktop and Field Evaluations (DFE), it is critical that the factors considered in making recommendations for sites are applied in a consistent manner. This protocol is intended to be a supplement to the I-495/I-270 P3 Compensatory SWM Program DFE Protocol.

2.0 PROJECT DATA

Please see the I-495/I-270 P3 Compensatory SWM Program DFE Protocol for the project data workflow. Below are the ProjectWise links to the folders (in bold-type) of project data to be used for the compensatory SWM searches.

Parent folder: E. GIS

URL

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3- Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{a5630a07-f59d-4dc5-add3-0dd0e69313f4}/

Subfolder: gisdata

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3- Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{32199d4e-18ee-41ea-b4d9-6596274a2a54}/

Subfolder: basedata

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3- Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\CADD and GIS\E. GIS\gisdata\basedata\

URN
pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{21ee2020-344f-439b-ab6b-0fe567987b1b}/

Versions of the spreadsheet (Compensatory_SWM_Review_Basedata_Contents.xlsx) are saved in the basedata folder to document the data resources that have been integrated into the corresponding versions of the basedata geodatabases.

The gisdata subfolder also contains the working databases for each firm to edit to add their potential sites and to track progress made. Each firm has an assigned folder inside the gisdata subfolder that contains team geodatabases. Team geodatabases for SWM searches are defined by the firm and team number, for example, NMP_Team1_SWM Search.gdb, and include five specific feature classes: OP3_SWM_Potential_Site, OP3_SWM_Potential_Site_DA, OP3_SWM_Potential_Site_IMP, OP3_Potential_Footprint, and SWM_Site_Search_Grids which are discussed in detail in this protocol.

3.0 TEAM GEODATABASE OVERVIEW

This section highlights the SWM site selection team database, the feature classes in those databases, and the intended use of them. Team geodatabases on ProjectWise will be "exported to create a local managed copy," on the user's computer and locked on ProjectWise. Users will "Update the Server Copy" at the end of every day that worked is performed. A new ProjectWise version of the team database will be created on a weekly basis to maintain the file history in ProjectWise. Each team database will be imported on Fridays to allow for updates and merging by the GIS data manager.
Users are assigned numbered grids in which to perform a guided site search.

3.1 OP3 SWM Potential Site (OP3_SWM_Potential_Site) GIS Feature class

Overview

For the desktop evaluation the OP3_SWM_Potential_Site feature class will store the Limit of Disturbance (LOD) of each potential SWM Best Management Practice (BMP)

Data Editing

Upon the review of each grid, the user performing the desktop evaluation will open an editing session and "draw" a potential stormwater BMP LOD and update the following bulleted fields of the attributes table within the feature class:

- **DESIGN_SUB** - Domain D_Desg_Subcategory
  - This field presents a dropdown menu with an extensive list of values.
  - It will be to the discretion of the user to choose and populate the appropriate value detailing the type of BMP appropriate to the location.
  - If a field investigation reveals that a different BMP type would be better, please update this field during this stage.

- **CNTY_CODE –** Domain D_Cnty_Code
  - This field presents a dropdown menu with a list of counties in Maryland
  - It will be up to the user to choose the appropriate county where the potential BMP is located.
- **SITE_NAME**
  - Please name the sites as per the I-495/I-270 P3 Compensatory SWM Program Desktop and Field Evaluation Protocol Performing Evaluations Section 7. Assign each BMP LOD a site number using the following numbering scheme: XXX-0001. XXX is to be replace by the watershed abbreviation that the site is in, either WAS or PAX. Numbers for the site have been assigned to each firm. No site name will be repeated.
- **PRELIM_IMPV_TREATED_ONSITE**
  - This field tracks the preliminary on-site impervious area treated in acres. The user can fill this field in from the Impervious feature class.
- **PRELIM_IMPV_TREATED_OFFSITE**
  - This field tracks the preliminary offsite impervious area treated in acres. The user can fill this field in from the Impervious feature class.
- **SITE_TYPE** – Domain P3_SiteTreamentType
  - This field presents the user with a dropdown list of two values. It will be up to the discretion of the user to choose and populate the appropriate value.
  - List of Values: “SWM” or “Pavement Removal”
- **FAC_TYPE** – Domain FacType
  - This field presents the user with a dropdown list of two values. It will be up to the discretion of the user to choose and populate the appropriate value.
  - List of Values: “Chapter 3” or “Chapter 5”
- **SOURCE** – Domain P3_Source
  - This field presents the user with a dropdown list of three values. It will be up to the discretion of the user to choose and populate the appropriate value.
  - List of Values: “P3 Desktop Search”, “TMDL Site Search,” or “Excess Land.”
- **SITE_STATUS** – Domain P3SiteStatus
  - This field presents the user with a dropdown list of six values. It will be up to the discretion of the user to choose and populate the appropriate value.
  - List of Values:
    - “1. Working” – Data has been created and/or under QC review
    - “2. Vetted” – Data has been internally reviewed
    - “3. NEPA” – final vetting has been done (take into consideration all the data from all disciplines) and has been incorporated into NEPA assessments
    - “4. Published” – Data has been published/released in the JPA, FEIS or other public documentation

        - "5. Dropped" – Data dropped, please add reason to NOTES field
    - ***NOTE**: With any change of status the date changed field needs to be updated and an entry needs to be added to the SITE_HISTORY table.
- **DATE_UPDATED** – Date
    - This field is to be used to keep track of the LOD was last updated or the last status change. If the LOD has been updated or the status has changed update the data to reflect the most recent date of a change.
- **COMMENTS**
    - This field is to be used for general comments or to elaborate on the design subcategory selection. Please enter very detailed comments in this section. The consultant is limited to 250 characters. Avoid redundant or obvious word choice, e.g., "site is good for BMP." Please be clear and understandable and make use of the space available.
    - If applicable, new, more detailed comments should be added per the results of the field investigation.
- **PROP_NOT_REQ** – Domain Yes/No
    - This field presents the user with a dropdown list of Yes and No. It is up to the user to decide if this site requires property owners to be notified for field inspections.
- **WATERSHED** – Domain P3_Watershed
    - This field present the user with a dropdown list of the two six-digit watersheds in which the BMP is located. The user will choose which watershed the feature is located.
    - List of Values: "Patuxent River" or "Washington Metropolitan"
- **ROW_NEEDED** – Domain Yes/No
    - This field will present the user with a dropdown list of Yes and No. It is up to the user to decide if additional ROW or an easement would be need for the feature.
- **QAQC_INT** – Domain Yes/No
    - This field will present the user with a dropdown list of Yes and No. It is used to track if an internal review of the site has taken place.
- **PLAN_COMMENT**
    - This field is to be used for comments to be included in the SWM plan. To ensure that comments and language used in the comment were consistent, Standard language can be found on ProjectWise here: Comp SWM Plan_Comments (Standard Language).xlsx
      pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/D{cb046ef2-8e87-4cbe-892e-d6fc4bbe7cee}
    - No prescriptive or specific design information should be included in these comments as to avoid telling a developer what to do at a site. No information

which will be covered by another discipline will be included in the comments to avoid conflicting information.

- **POST_NEPA_SITE_CHANGES** – Domain P3_LOD_NEPA_Update
  - This field will present the user with a dropdown pick list. It is used to track changes to the team database after the submission to the NEPA team.
  - List of Values:
    - "NEPA 4f Requested" – Change was requested by the Parks (4f) review group
    - "NEPA CR Requested" - Change was requested by the Cultural Resources review group
    - "WR Excess Land Parcel" – Site was added with a excess land review parcel
    - "FEIS/DEIS Comment" – Received a comment from the FEIS/DEIS review
    - "NEPA NR Requested" – Change was requested by the Natural Resources review group
    - "Other" – Change was requested for reason not listed or site was added for reason not listed
    - "Public Entity" – Change was requested or site was added on the direction of a public entity (i.e. MNCPPC, Montgomery County, The City of Rockville,…etc)
    - "WR Team Site Search" – New site was identified during the ½ mile from alignment review
- **POST_NEPA_SITE_CHANGES_DESC**
  - This field is used for comments for when the POST_NEPA_SITE_CHANGES field is used. The user should elaborate on what changes were made to the site and why.

3.2 OP3 SWM Potential Site DA (OP3_SWM_Potential_Site_DA) GIS Feature class

Overview

For the desktop evaluation the ***OP3_SWM_Potential_Site_DA*** feature class will store the drainage area for each potential SWM BMP.

Data Editing

Upon the review of each grid, the user performing the desktop evaluation will open an editing session and "draw" a drainage area to the potential stormwater BMP and update the following bulleted field within the feature class:

- **TREATMENT_AREA**
  - This field tracks the preliminary total drainage area in Acres.
  - Users can use the calculate geometry tool to update this field at the end of the day or upon creation of each feature.

- **SITE_NAME**
    - This name will match the corresponding field in the OP3_SWM_Potential_Site feature class.

3.3 OP3 SWM Potential Site Impervious (OP3_SWM_Potential_Site_IMP) GIS Feature Class

Overview

For the desktop evaluation the OP3_SWM_Potential_Site_IMP feature class will store the impervious area within the drainage area to be treated by each potential SWM BMP.

Data Editing

Upon the review of each grid, the user performing the desktop evaluation will open an editing session and "draw" an area around the impervious area to be treated by the potential SWM BMP and update the following bulleted field within the feature class:

- **TREATMENT_AREA**
    - This field tracks the preliminary impervious area treated in acres. The user can use GIS tools to "clip" the impervious area shape or hand "draw" the area and use the calculate geometry tool to get this number. This will include onsite and offsite drainage area in separate field.
- **SITE_NAME**
    - This name will match the corresponding field in the OP3_SWM_Potential_Site feature class.

3.4 OP3 Potential Footprint (OP3_Potential_Footprint) GIS Feature Class

Overview

For the desktop evaluation the OP3_Potential_Footprints will store the potential footprint of a SWM facility and will track the site name as well as the area in square feet.

Data Editing

Upon the review of each grid, the user performing the desktop evaluation will open an editing session and "draw" a footprint to the potential SWM BMP and update the following bulleted field within the feature class:

- **SITE_NAME**

    This name will match the corresponding field in the OP3_SWM_Potential_Site feature class.

3.5 SWM Site Search Grids (SWM_Site_Search_Grids) GIS Feature Class

Overview

For the desktop evaluation the SWM_Site_Search_Grids feature class will allow users to track their progress through their evaluation area and avoid duplicating efforts by other team members.

Data Editing

Upon the review of each grid, the user performing the desktop evaluation will open an editing session and change the progress to either "In Progress" or "Completed"

- **GRID_STATUS** – Domain Grid_Status
  - This field presents a dropdown list to the user of three statuses; "Not Started", "In Progress" and "Completed". "Not Started" is the default value and is meant to show that the grid has not yet been reviewed. "In Progress" should be selected when the user has completed the review of portions of the grid but not all and the user is finished with the workday. "Completed" should be selected with the review of that grid has been completed.
- **PageName**
  - This field shows the grid number is used for numbering and tracking of grid statuses.

3.5 Site History (SITE_HISTORY) Geodatabase Table

Overview

For the desktop evaluation the ***SITE_HISTORY*** table will store the history of each site. Any status change or geometry change to an LOD after creation should have a corresponding entry in this table

Data Editing

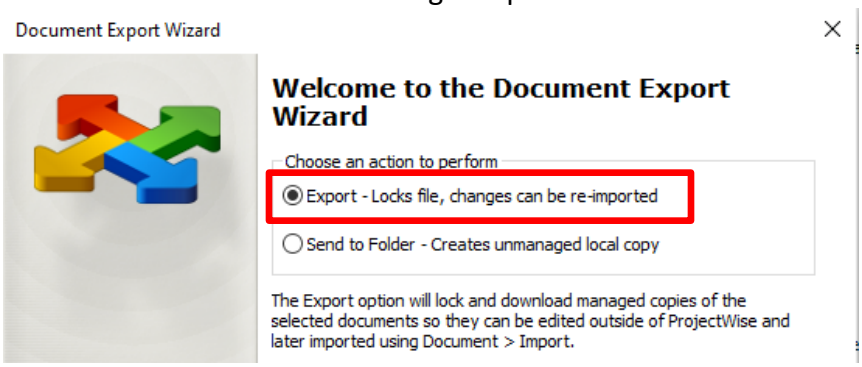
Upon a status change or geometry change to an LOD, the user performing the desktop evaluation will open an editing session and add a record to the table and update the following bulleted field within the table:

- **SITE_NAME**
  - This name will match the corresponding field in the OP3_SWM_Potential_Site feature class.
- **SITE_STATUS_UP** - Domain P3SiteStatus
  - This field will present the user with a dropdown list with the SITE_STATUS options from section 3.1.
- **DATE** – Date
  - This field is to be used to keep track when the update occurred. Enter the date of the change being made.
- **DESC**
  - This field is to be used to describe why the change is being made to the status or LOD.

4.0 DATA SETUP

In order to work with GIS file geodatabases in ProjectWise, users will export all the files in the Team geodatabases to a folder with the same name as the Team geodatabase. For example, NMP_Team1_SWM_Search.gdb is the folder in ProjectWise. User will create a folder

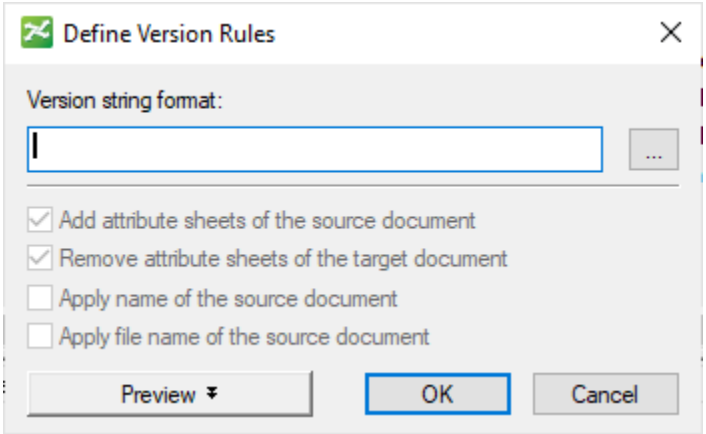
C:\GEC\Compensatory_SWM_Search\NMP_Team1_SWM_Search.gdb on the computer being used for the site search. The contents of NMP_Team1_SWM_Search.gdb on ProjectWise will be **exported and locked** to folder on the working computer.



Users will update the server copy of the Team geodatabases after each day working on them. Versioning and importing of the team geodatabases that are being worked on should be done on a weekly basis.

To version the files in the team geodatabases:

- Select all the files and then right click on the selected files.
- Go to **New > Version**
- In the **Define Version** Rules dialog box, add the next sequential letter, number, or date from the current version. For example, if the current version is "A", put "B" or if the current version is "10/09", put a date after 10/09 (the date used should be the date the version is created) in the dialog box. Note that ProjectWise updates the sequence number of a file each time a version is made. The file's sequence number can also be used to identify the history of any given file.



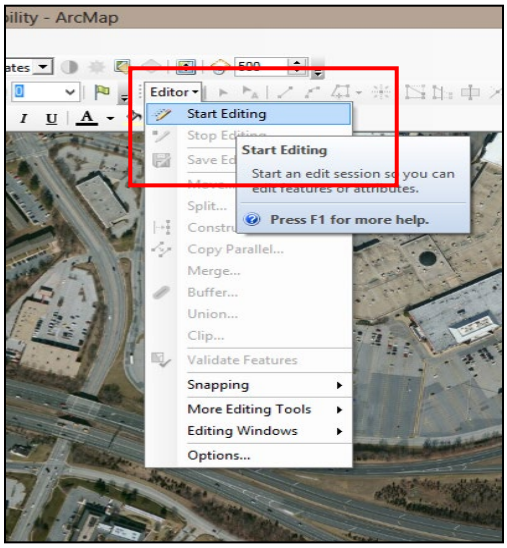
5.0 GIS DESKTOP EVALUATION

The exercise below will support the desktop evaluation process and workflows.

5.1 Add a potential SWM LOD

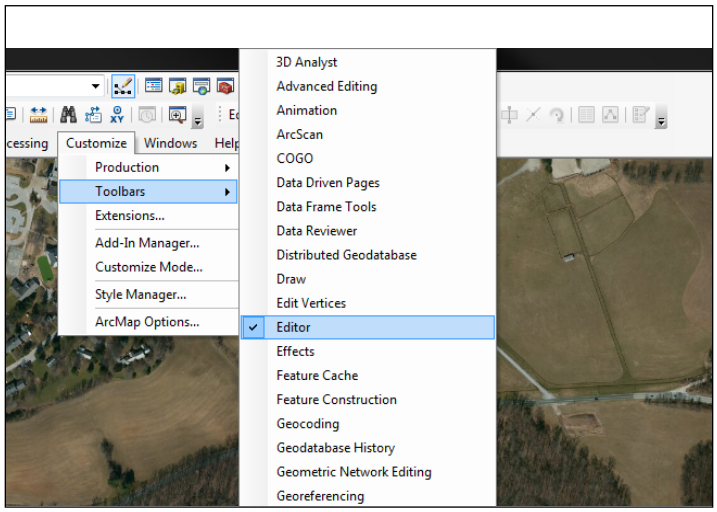
5.1.1 Step 1 – Starting an Editing Session

- Start a new editing session by clicking ***Start Editing*** in the ***Editor*** drop-down menu. The location of the Editor menu may vary from user to user.



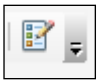
NOTE: A spatial error may pop up, please hit continue.

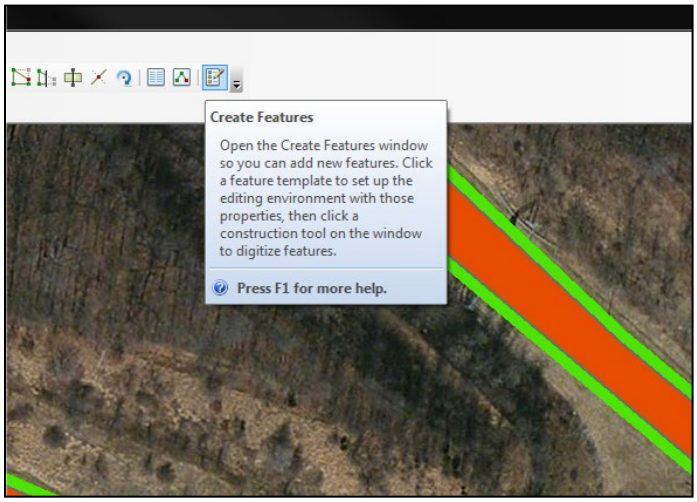
- Choose the feature class to be edited.
- If the Editor menu is not displayed on the screen go to ***Customize*** > ***Toolbars*** and select ***Editor***.



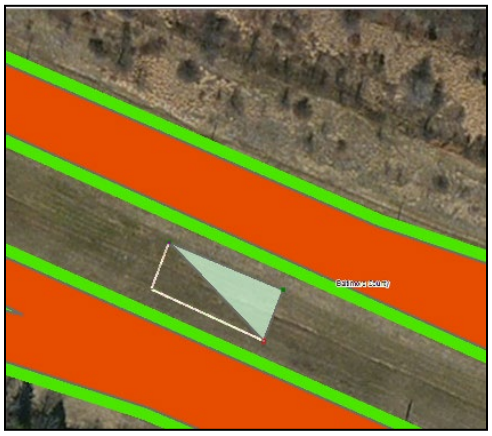
5.1.2 Step 2 – Editing the feature classes in team databases

Empty feature class called ***OP3_SWM_Potential_Site, OP3_SWM_Potential_Site_DA, OP3_SWM_Potential_Site_IMP, OP3_Potential_Footprint, and SWM_Site_Search_Grid*** have been created to provide the opportunity for the consultant to place potential feature locations on the map. During the desktop review, the subject matter expert can draw the LOD of conceptual features in potential locations using this feature class.

- If an editing session is not open, right-click on any of the layers in the team gdb's feature classes in the ***Table of Contents*** and select ***Edit Features*** > ***Start Editing***
- Select the ***Create Features*** icon in the editing toolbar. 



- A create feature window will appear with templates for each feature.
- If the feature class does not appear in the Create Features window, select the Organize Templates icon 
- A window will appear displaying the current feature templates.
- Click ***New Template*** in the ***Organize Feature Templates*** window.
- Check the feature for which you want to create a new template.
- Since the feature has been symbolized in advance with one symbol, click ***finish*** then click ***close*** to begin editing.
- A crosshair will appear on the map allowing you to draw a polygon with three (3) or more sides, representing the conceptualized stormwater feature's LOD.
- By moving the mouse and clicking at each vertex, the feature will be drawn. Double click when finished drawing each feature.



- You can pan and zoom about the map at any time to find new locations within the assigned grids.
- In order to create more features after panning and zooming, click on the feature template in the ***Create Features*** window one again.
- Each time a new feature is drawn, a unique record for that feature will be created in its attribute table. The user will fill out the field information discussed above for this feature class.

5.1.3 Step 3 – Calculating the Acres of a Feature

After a feature is drawn the user is able to use built-in ArcMap tools to calculate the area. It is recommended for this to be done in an editing session. This is so the user will be able to undo any mistakes using ***Edit > Undo***. If the user is not in an editing session, this is not possible, and ArcMap will show the user a warning window when this occurs. Also, the user has the choice of doing this to many features at once or 1 feature at a time.

- In ArcMap, open the attribute of the feature class where the feature(s) are located.
- Select the row of the desired feature(s) in the attribute table. To do this select the grey box to the left of the first column in the table. To select multiple features either drag the mouse down the boxes or hold the Ctrl key and select the desired row.

Table

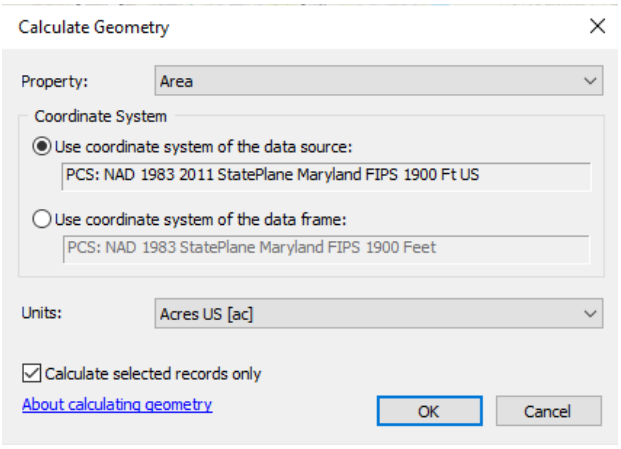
SWMFAC_DA

OBJECTID *	Shape *	FACILITY_ID	TREATMENT_AREA	CNTY_CODE	MD_WSHED	MD_MSHOP	MD_DISTRICT
1	Polygon	27ab2707-4d6c-486e-8f89-5d4e6fa52328	5.372391	15	02-14-02	10	3
2	Polygon	d43efa51-aa69-4566-8424-d8eda2b5660d	12.998518	15	02-14-02	10	3
3	Polygon	1210bceb-45ae-4063-b5dd-18273c92a4b5	4.181161	15	02-14-02	11	3
4	Polygon	5a29e3aa-c7e3-433a-880e-9ebc10f23fea	13.038292	02	02-13-11	18	5
5	Polygon	8143427d-a4c1-40a3-9909-037b0b230427	3.624475	08	02-13-11	21	5
6	Polygon	824dfd33-d65f-4e4c-86e7-295ca3f08f4b	0.211135	08	02-13-11	21	5

Grey Box

- Right click on the desired field and choose “Calculate Geometry”

- If the user is not in an editing session a warning window will pop up. Click No, open an edit session and repeat the previous steps.
- The Calculate Geometry window will appear. Set the options to match the screen shot below:

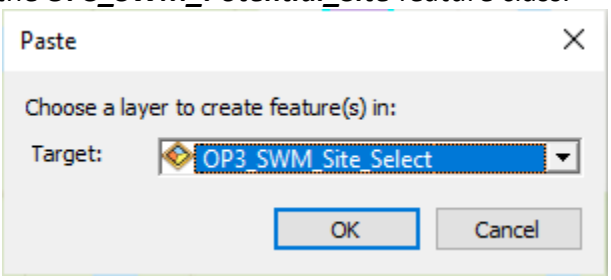


- The field will be populated with the acres of the selected sites.

5.1.4 Step 4 – Copying a feature from the TMDL data layers

If a user would like to copy a feature from a TMDL data layer into a P3 Team Geodatabase follow these steps below:

- With an edit session open for the ***OP3_SWM_Potential_Site*** feature class, select the TMDL feature to be copied using the select tool  .
- From the main tool bar menu select ***Edit > Copy***. Then select ***Edit > Paste***.
- A window will pop up asking the user to select the target layer. Use the drop-down menu to choose the ***OP3_SWM_Potential_Site*** feature class.



- Some attribute information should copy over all well. Be sure to update the site name and any other missing attribute information. Also, double check the Preliminary Impervious value. This may have changed from the time between when the TMDL team carried out their site selection to now.

6.0 Appendices

6.1 TMDL Database Notes

6.1.1 Washington Metropolitan Area Watershed 02-14-02 (340 ac compensatory IART, target > 425 ac)

TMDL Database Layer	Description
1.A NewStormwater_SiteSelection	planned TMDL*
1.B GrassSwales_SiteSelection	planned TMDL GS credit*
1.C GrassSwales_ProjectShelved	planned TMDL GS credit*
1.D NewStormwater_Restoration	built TMDL, should already be recorded in NPDES SWMFAC
1.E NewStormwater_DA_Restoration	built TMDL DA
1.G IA_Removal	built TMDL pavement removal

* Before copying viable planned sites to working geodatabase (change shapes as needed and verify IA treated), check if planned sites already have existing NPDES SWM in place.

6.1.2 Patuxent River Area Watershed 02-13-11 (32 ac compensatory IART, target > 40 ac)

TMDL Database Layer	Description
2.A SWM_BMP_Planned_PatuxentRiver	planned and built TMDL*, contains Column GEN_COM that explains the rationale of various site status, contains Column SOURCE that records the original type of the TMDL study.
2.B Grass_Swale_Planned	planned TMDL GS credit *, contains Column GEN_COM that explains the rationale of various site status, contains Column SOURCE that records the original type of the TMDL study
2.D SWM_BMP_Restoration_PatuxentRiver	built TMDL, should already be recorded in NPDES SWMFAC
2.F Pavement_Removal_Site_Select	planned and built TMDL pavement removal, contains Columns DESCRIPTION and GEN_COM with more site info
2.G Pavement_Removal_Restoration	built TMDL pavement removal (only 1 site)

* Before copying viable planned sites to working geodatabase (change shapes as needed and verify IA treated), check if planned sites already have existing NPDES SWM in place.

I-495/I-270 P3 Offsite SWM Site Search Field Form

Consultant (Inspector(s)/Company):		
Date of Inspection:		
Weather (note if precipitation occurred within last 3 days):		
County:		
Site Number (to be assigned by consultant):		
FIELD INVESTIGATION DATA		
General characteristics of site (topography, land use, etc.): (overall photo)		
Is right-of-way (ROW) observed in the field consistent with the GIS ROW layer? Take photo and describe the observed ROW.	YES NO	
Accessibility for Construction & Maintenance (i.e. unobstructed & direct from SHA ROW or items that may affect the access - steep slopes, private property, guard rail, fencing, other reasons): (photo)		
Potential utility conflicts present on site? (overhead lines, underground lines/piping approximated by surface vaults/boxes): (photo and comments if encountered)	YES NO	
Surface wetlands, waters, bedrock present at site?: (photo and comments if encountered)	YES NO	
Steep slopes (15%+) present at site?: (photo and comments if encountered)	YES NO	
Trees present on site (photo and comments about protection, removal etc. if encountered)	YES NO	
SHA-owned impervious area draining to site (number of lanes, shoulders, approx. widths, etc.); inflow type (e.g. sheet flow, ditch flow etc.); and is it stable? (Photo and Comment)		
Proposed facility outfall type (ditch, storm drain, culvert, underdrain etc.): (photo and comments for feasibility, stability etc.)		
Existing outfall structure (ditch, storm drain, culvert, etc.) within SHA ROW located downstream of proposed facility :		

I-495/I-270 P3 Offsite SWM Site Search Field Form

Could site be a potential hot spot (e.g. an existing fueling station, salt dome etc.)? Or is land use adjacent to site a possible hot spot?:	YES NO	
Are there any prohibitive feature or characteristics (e.g. monument, sign structures etc.) on or near the site?: (photo and comments if encountered)	YES NO	
To construct the BMP type, will ROW or easement acquisition be required? If so, list owner (private, local government etc. and land uses (wooded area, agriculture, open space etc.): (photo and comment for adjacent property)	YES NO	
Potential public concerns (ROW issues, roadway frontage/sight lines, aesthetics, mosquitoes, noise, safety, general quality of living, proximity to private residences/businesses/public areas, etc.): (photo if encountered)	YES NO	
Is there offsite drainage to the site? (Large, medium, small area). If so, difficulty of diverting offsite area around site (easy, medium, difficult): e.g. bypass ditch or storm drain system (Photo)	YES NO	
Is there potential to adjust the existing storm drain configuration and/or existing drainage patterns to increase the impervious area contributing to a facility at this location? (Photo and note the concern associated with diverting the runoff i.e. quantity control)	YES NO	
Should this site be removed from further consideration (i.e. steep slopes, wooded area including large healthy trees, site is completely wooded, change in land use or ownership, major utility conflict etc.)? If yes, please explain why?	YES NO	
Based on the results of the Field Investigation, what is the recommended proposed potential BMP type?:		
Additional general comments:		

	Photo File naming convention Example
Overall Photo	WAS-XXXX_OV
ROW	WAS-XXXX_ROW
Access	WAS-XXXX_ACC
Utilities	WAS-XXXX_UTL
Natural Resources	WAS-XXXX_NAT
Steep Slopes	WAS-XXXX_STP
Trees	WAS-XXXX_TR
Inflow - SHA Owned Impervious	WAS-XXXX_INF
Prohibitive Features	WAS-XXXX_PROH
Facility Outfall	WAS-XXXX_OUT
POI Outfall	WAS-XXXX_POI
Adjacent Property	WAS-XXXX_ADPR
Public Concerns	WAS-XXXX_PUB
Offsite Drainage Area	WAS-XXXX_OFD
Divert Existing Storm Drain	WAS-XXXX_DIV
Sketch	WAS-XXXX_SKETCH

Stream Restoration
Field Assessment Form

Project Details

Site Name: _____ Date: _____

_____ Investigators: _____

Assessment

Site Access:

_____

_____

_____

_____

Utilities Present:

_____

_____

_____

_____

Potential Permitting Issues:

_____

_____

_____

_____

Vertical Stability:

_____

_____

_____

_____

Bank Erodibility:

Riparian Vegetation:

Debris / Channel Blockages:

Potential Restoration Length: _____

General Remarks:

I-495/I-270 P3 Compensatory SWM Program

Virtual Desktop QA/QC Protocol

1.0 PURPOSE

The purpose of this protocol is to define Quality Assurance/Quality Control (QA/QC) procedures for ensuring consistency in assessing the feasibility of site selections for offsite compensatory stormwater (SWM) opportunities for the MDOT SHA I-495 & I-270 Public-Private Partnership (P3) Program. Since multiple GEC consultant teams are assigned to Desktop and Field Evaluations and internal QA/QC reviews, it is critical that the factors being considered during the internal QA/QC process are being applied in a consistent manner. This QA/QC protocol will also be applicable for the final offsite SWM site selections to be conveyed to the NEPA team for the FEIS.

Each firm will schedule a date and time to participate in the virtual QA/QC session using the spreadsheet, CompSWM QAQC_Schedule.xlsx.

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\Engineering\D. Reports - White Papers\Site Search QAQC Review\CompSWM QAQC_Schedule.xlsx

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/D{4599830f-4eb9-4629-889c-ceb64b59fbda}

2.0 QA/QC PREPARATION

The QA/QC sessions will begin with reviews conducted by WRA with a representative from each firm (RJM, NMP, WSP) for a virtual walk-through of selected sites within the firm-designated grids. Sites to undergo QA/QC will have been determined per guidance and procedures in the supplemental documents for site selection, I-495_I-270 P3 Offsite SWM Site Search Protocol.docx, and GIS-based investigation, I-495_I-270 P3 Offsite SWM Site Search GIS Workflow.docx, saved on Projectwise at Site Search Protocol.

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\Engineering\D. Reports - White Papers\Site Search Protocol\

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{c7e8ebf8-dbca-4685-bee6-d073591099b5}/

It is the responsibility of each firm to provide the GIS databases and documentation to be reviewed concurrently during the QA/QC session and upload to Projectwise at Site Search QAQC Review.

URL

pw:\\shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3\Documents\OP3\13- I495-I270 CR P3-Program Team\13.17 Mitigation Projects\13.17 Compensatory SWM\13.17.04 Drainage\Engineering\D. Reports - White Papers\Site Search QAQC Review\

URN

pw://shavmpwx.shacadd.ad.mdot.mdstate:SHAPWP3/Documents/P{46fd4873-ab4b-43f8-a6cb-e257eb1dccd3}/

The QA/QC session will be conducted virtually via Microsoft Teams at the scheduled date and time.

3.0 QA/QC REVIEW

The QA/QC sessions will involve desktop sharing of ArcGIS map files with project base data and offsite SWM site search geodatabases. General details to be reviewed during QA/QC include, at a minimum:

Site ID	*Confirm Firm's numbering convention is correct per SWM Site Search Protocol.*	*Facility Type*	*Chapter 5 or Chapter 3*
Version of Base Data GDB	*Confirm current version.*	*Waters / Floodplain*	*Consider temporary and permanent impacts.*
MDOT SHA Project Portal	*Check for overlap and conflicts. Use web link.*	*Wetlands*	*Consider temporary and permanent impacts.*
	https://mdot-sha-project-portal-maryland.hub.arcgis.com/	*Existing Utilities*	*Existing Utilities Present / Potential Conflicts to be reviewed concurrently with field investigations and other discipline reviews*
Location/Roadway		*Site History Table*	*Confirm record is current, per status of site.*
Grid ID ##	*Confirm grids reviewed*	*OED Env Assets*	*Type: Managed LS or MS4 TMDL*
County		*TMDL Sites Adopted for P3*	*Identify Site and Contract of TMDL*
Watershed	*Washington Metropolitan (WAS) or Patuxent (PAX)*	*Field Visit Tracking and Forms*	*Upload to Projectwise when completed.*
LOD drawn to estimate potential impacts for construction	*Consider access, ESC, staging, MOT.*	*Other Discipline Reviews*	*Confirm issues or comments are addressed per review by others.*
Drainage Area: to proposed SWM BMP	*DA = acres, Confirm DA limitations for facility.*	*Other Relevant Exclusions*	*Purple Line, National Park Service*
Impervious Area: to proposed SWM BMP	*IA = acres, Confirm >0.1 ac*	*Firm's geodatabase versions*	*Confirm Firm's GDB on Projectwise is correctly versioned per GIS Protocol.*
Potential ROW Impacts	*Identify which entities are potentially impacted.*	*Other*	

Other Disciplines Cross-Checked
Natural Resources
Cultural Resources
Hazardous: gas stations, dry cleaners, salt barns
Utilities
Forestry
Structural: SDWK rebuild, FAC cover; UG FAC exc/shoring; OHD UT complications

A spreadsheet, prepared for each firm, will be used for documenting and summarizing the QA/QC procedures and saved in Site Search QAQC Review (URL and URN linked above).

- P3 Compensatory SWM_QAQC Protocol_WSP.xlsx
- P3 Compensatory SWM_QAQC Protocol_NMP.xlsx
- P3 Compensatory SWM_QAQC Protocol_RJM.xlsx
- P3 Compensatory SWM_QAQC Protocol_WRA.xlsx

4.0 QA/QC SUMMARY

At the end of the QA/QC sessions, the QA/QC Reviewer (WRA) will provide a summary of overall comments for all firms to review and address as appropriate.

APPENDIX B – CULTURAL RESOURCES EVALUATION

Compensatory Stormwater Management Sites
for the I-495 and I-270 Managed Lanes Study

APPENDIX B: Cultural Resources Desktop Evaluations

1. Background

The I-495 and I-270 Managed Lanes Study (MLS), as a federal undertaking defined at 36 Code of Federal Regulations (C.F.R). 800.16(y), is required to comply with Section 106 of the National Historic Preservation Act. Maryland Department of Transportation State Highway Administration (MDOT SHA) and the Federal Highway Administration (FHWA) will complete the Section 106 review via execution of a Programmatic Agreement (PA) that establishes review requirements on elements of the undertaking, including potential compensatory stormwater management (SWM) sites. Agencies with jurisdiction over stormwater management, including the U.S. Army Corps of Engineers, are expected to be party to the PA to satisfy their obligations under Section 106. Requirements include review of potential locations to identify any historic properties that may be affected; survey and evaluation work where merited; and assessment of effects to historic properties where they may be present. Avoidance, minimization and/or mitigation of effects to historic properties will be required as part of the PA. Because SWM elements outside the Limits of Disturbance (LOD) may be defined either prior to or after execution of the PA, all such sites are subject to applicable Section 106 requirements prior to approval by MDOT SHA and/or FHWA.

2. Methodology and Assumptions

MDOT SHA conducted preliminary evaluations of cultural resources potential for 739 potential SWM facility sites and 15 potential stream restoration sites for the MLS. Of these, MDOT SHA anticipates submitting 276 SWM sites (269 SWM facility sites and 7 stream restoration sites) to be included with permit applications as part of Section 106 consultation for the Recommended Preferred Alternative Phase 1 South). Should the developer elect or desire to use sites outside these identified locations, additional Section 106 consultation will be required. The evaluation was based on preliminary site areas provided by the MLS Team. Because no design work has been done on the individual SWM sites at the time of this review, this effort constitutes only a preliminary review of potential sites to identify recorded historic resources and archaeological sites, evaluate archaeological potential, and identify additional evaluation work that would be required, if individual sites are identified for development.

Because the potential SWM sites occur along major roadways, the Area of Potential Effects (APE) for the SWM locations has been initially defined as the LOD of the potential SWM sites; because of the nature of SWM sites, effects to historic properties are generally not expected outside the LOD. In exceptional circumstances MDOT SHA may determine a larger APE is warranted for selected sites.

Because the cultural resources evaluations were based on preliminary information, additional review will be required for all sites as design information is developed, and all sites outside the established LOD will be subject to consultation per the requirements of the PA.

The MDOT SHA review of the potential SWM sites considered possible visual, audible, atmospheric and/or physical impacts that may occur to historic properties (both archaeological sites and standing structures), which would diminish the integrity of any characteristics that would qualify a property for the National Register of Historic Places (NRHP). As part of Section 106 review and the PA, MDOT SHA is responsible for determining level of effort for evaluation of each site.

At this time, no field visits have been made, but individual sites have been flagged for future fieldwork. MDOT SHA based its evaluations on data found within the SHA-GIS ArcView Cultural Resources Database, including the following sources:

- The Maryland Inventory of Historic Properties, including National Register of Historic Places, Maryland Inventory of Historic Properties, and archaeological sites;
- Previous archaeological studies;
- Maryland Property View including tax parcel data;
- Historic aerial photographs and topographic maps;
- Current aerial photography;
- LiDAR;, and
- USDA soils data.

Results

MDOT SHA conducted preliminary evaluation of cultural resources potential for 739 potential SWM facility sites and 15 potential stream restoration sites for the MLS. Again, of these, MDOT SHA anticipates submitting 276 sites (269 SWM facility sites and 7 stream restoration sites) to be included with permit applications as part of Section 106 consultation for the Recommended Preferred Alternative Phase 1 South). Should the developer elect or desire to use sites outside these identified locations, additional Section 106 consultation will be required. The following tables summarize the assessment of: (1) Known historic architectural or archaeological sites at each potential location, and (2) the level of effort estimated to complete the required Section 106 consultation should the developer elect to use a particular site. In case where known, NRHP-eligible sites are present, and those sites would be adversely impacted by the action, then avoidance, minimization, or mitigation would be developed in consultation with the Maryland Historical Trust (MHT). Completion of this process will be required before the site may be used. Previously recorded architectural resources are identified by a Maryland Inventory of Historic Properties (MIHP) number. The MIHP is a state database of architectural resources; resources given an MIHP number may or may not have been evaluated for the NRHP. Recorded archaeological resources are identified by a site number from the Maryland Archaeological Site Survey.

Terminology:

Phase I Survey – archaeological field evaluation of the site to determine if any buried resources are present. This typically involves both background research and subsurface testing (typically hand-excavated test pits at regular intervals, although methods may vary depending on the site). If resources are present, Phase II Survey may be required.

Phase II Survey – additional archaeological testing with additional shovel test pits and excavation units, to determine if an archaeological site is significant (eligible for the NRHP). Any sites determined by MDOT SHA to be significant (NRHP-eligible), and are within LOD require additional avoidance, minimization or mitigation efforts determined through consultation with the MHT and other parties.

Determination of Eligibility (DOE) form – for architectural resources, a DOE is typically required for structures or other resource types that will reach at least 50 years in age during the course of the project. If a structure is determined by MDOT SHA to be eligible for the NRHP, MDOT SHA will determine if the structure would be adversely affected by development of the SWM site. If the effect would be adverse, avoidance, minimization or mitigation determined through consultation with the MHT and other parties would be required. However, typical SWM activities often do not alter the setting of a historic structure to the extent that the effect would be adverse.

NRHP-Listed or NRHP-Eligible Property – properties that have previously been evaluated for the National Register of Historic Places and have been listed or determined eligible for listing. Where known, NRHP-eligible or -listed archaeological sites are present within LODs, avoidance, minimization or mitigation developed in consultation with the MHT will be required before the site may be used. For architectural historic properties, MDOT SHA will determine if the property would be adversely affected by development of the SWM site. If the effect would be adverse, avoidance, minimization or mitigation determined through consultation with the MHT and other parties would be required. However, typical SWM activities often do not alter the setting of a historic structure to the extent that the effect would be adverse.

No Further Survey or Evaluation Recommended – MDOT SHA has found that there are no historic properties present, no structures requiring evaluation, and due to prior disturbance or other low potential, no archaeological survey is merited. All sites in this category **still require consultation** to obtain concurrence on MDOT SHA's finding from the MHT, and MDOT SHA's evaluation may change if new information emerges or design/LOD changes.

The following constitutes MDOT SHA's preliminary recommendations, and all site evaluations are subject to change if new information comes to light during the consultation process.

3. Conclusions

To date, MDOT SHA has conducted preliminary evaluations of the cultural resources potential for 754 potential SWM sites for the MLS. MDOT SHA anticipates submitting 276 sites to be included with permit applications as part of Section 106 consultation for the Recommended Preferred Alternative Phase 1 South. Should the developer elect or desire to use sites outside these identified locations, additional Section 106 consultation will be required. No further survey or evaluation is recommended at the majority of the sites (however, all of these sites still require consultation to obtain the concurrence of the MHT, and MDOT SHA's evaluation may change if new information emerges or design/LOD changes).

MDOT SHA's evaluations concluded that approximately twenty-eight (28) potential SWM sites require determination of eligibility (DOE) forms for of historic standing structures; approximately twenty-one (21) sites impact National Register listed or eligible historic standing structures (the effects of the project to those resources would have to be evaluated to determine the need for potential avoidance, minimization, or mitigation measures); and nineteen (19) sites require Phase I archaeological survey to determine the presence of significant archaeological sites on the potential SWM property. In addition, any sites located on land administered by other state or federal agencies would require coordination with those agencies (in addition with Section 106 consultation with MHT) to approve the use of the lands administered by others. Again, MDOT SHA's evaluations may change if new information emerges, or if engineers develop changes to the design or LOD of individual sites. Also, note that many of the potential SWM sites impact the same resources; therefore, the total number of investigations that are required may be less than the numbers listed above.

MDOT SHA's specific evaluations to date are shown in the tables below.

Table B-1. Preliminary Cultural Resources Evaluations – Stream Restoration Sites.

Site Name	Evaluation of Work Required	NRHP-eligible/listed Sites or Structures	Comments
MPOC-0009	No further survey or evaluation recommended at this time		
MO_00047A	Minor - c. 1975 Gunner's Local Park needs evaluation		
SSS-150023	No further survey or evaluation recommended at this time		
MPOC-0008	No further survey or evaluation recommended at this time		
MO_00018	Minor - 1970s Heritage Farm Park needs evaluation		
MPOC0006_0010_0011	No further survey or evaluation recommended at this time		
MO_00051	No further survey or evaluation recommended at this time		
SSS-160065_160066	Moderate - Fletcher Field needs evaluation		
PG-00079-Backup	No further survey or evaluation recommended at this time		
SSS-160023-Backup	No further survey or evaluation recommended at this time		
MPAO_0022-Backup	No further survey or evaluation recommended at this time		
MO_00029	No further survey or evaluation recommended at this time		
MPAO_0015	Minor--review plans for possible archaeology impacts		
MPAO_0014	Minor--review plans for possible archaeology impacts; and Stonegate Swim Club needs evaluation		
MO_1540045	No further survey or evaluation recommended at this time		

Table B-2. Preliminary Cultural Resources Evaluations – SWM Facility Sites.

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
PAX-0014	No further survey or evaluation recommended at this time		
PAX-0016	No further survey or evaluation recommended at this time		
PAX-0017	No further survey or evaluation recommended at this time		
PAX-0018	No further survey or evaluation recommended at this time		
PAX-0019	No further survey or evaluation recommended at this time		
PAX-0020	No further survey or evaluation recommended at this time		
PAX-0022	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
PAX-0026	No further survey or evaluation recommended at this time		
PAX-0029	No further survey or evaluation recommended at this time		
PAX-0030	No further survey or evaluation recommended at this time		
PAX-0034	No further survey or evaluation recommended at this time		
PAX-0039	No further survey or evaluation recommended at this time		
PAX-0041	No further survey or evaluation recommended at this time		
PAX-0042	No further survey or evaluation recommended at this time		
PAX-0045	No further survey or evaluation recommended at this time		
PAX-0046	No further survey or evaluation recommended at this time		
PAX-0047	No further survey or evaluation recommended at this time		
PAX-0048	No further survey or evaluation recommended at this time		
PAX-0049	No further survey or evaluation recommended at this time		
PAX-0051	No further survey or evaluation recommended at this time		
PAX-0059	No further survey or evaluation recommended at this time		
PAX-0061	No further survey or evaluation recommended at this time		
PAX-0062	No further survey or evaluation recommended at this time		
PAX-0063	No further survey or evaluation recommended at this time		
PAX-0064	No further survey or evaluation recommended at this time		
PAX-0076	No further survey or evaluation recommended at this time		
PAX-0080	No further survey or evaluation recommended at this time		
PAX-0301	No further survey or evaluation recommended at this time		MIHP-listed structure avoided
PAX-0302	No further survey or evaluation recommended at this time		
PAX-0304	No further survey or evaluation recommended at this time		
PAX-0305	No further survey or evaluation recommended at this time		
PAX-0308	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
PAX-0310	No further survey or evaluation recommended at this time		
PAX-0311	No further survey or evaluation recommended at this time		
PAX-0312	No further survey or evaluation recommended at this time		
PAX-0313	No further survey or evaluation recommended at this time		
PAX-0315	No further survey or evaluation recommended at this time		
PAX-0601	No further survey or evaluation recommended at this time		
PAX-0602	No further survey or evaluation recommended at this time		
PAX-0608	No further survey or evaluation recommended at this time		
PAX-0610	Minor cultural resources coordination expected (structures DOE[s])		MHT concurrence on DOE not expected until August 2021
PAX-0616	No further survey or evaluation recommended at this time		
PAX-0618	No further survey or evaluation recommended at this time		
PAX-0620	No further survey or evaluation recommended at this time		
PAX-0621	No further survey or evaluation recommended at this time		
PAX-0622	No further survey or evaluation recommended at this time		
PAX-0624	No further survey or evaluation recommended at this time		
PAX-0625	No further survey or evaluation recommended at this time		
PAX-0626	No further survey or evaluation recommended at this time		
PAX-0641	No further survey or evaluation recommended at this time		
PAX-0951	No further survey or evaluation recommended at this time		
PAX-0961	No further survey or evaluation recommended at this time		
PAX-0965	No further survey or evaluation recommended at this time		
PAX-1204	No further survey or evaluation recommended at this time		
PAX-1205	No further survey or evaluation recommended at this time		
PAX-1206	No further survey or evaluation recommended at this time		
PAX-1209	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
PAX-1210	No further survey or evaluation recommended at this time		
PAX-1211	No further survey or evaluation recommended at this time		
PAX-1213	No further survey or evaluation recommended at this time		
PAX-1502	No further survey or evaluation recommended at this time		
PAX-1504	No further survey or evaluation recommended at this time		
PAX-1509	No further survey or evaluation recommended at this time		
PAX-1510	No further survey or evaluation recommended at this time		
PAX-2001	No further survey or evaluation recommended at this time		
PAX-2005	No further survey or evaluation recommended at this time		
PAX-2006	No further survey or evaluation recommended at this time		
PAX-2007	No further survey or evaluation recommended at this time		
PAX-2008	No further survey or evaluation recommended at this time		
PAX-2009	No further survey or evaluation recommended at this time		
PAX-2010	No further survey or evaluation recommended at this time		
PAX-2012	No further survey or evaluation recommended at this time		
PAX-2013	No further survey or evaluation recommended at this time		
PAX-2015	No further survey or evaluation recommended at this time		
PAX-2016	No further survey or evaluation recommended at this time		
PAX-2017	No further survey or evaluation recommended at this time		
PAX-2018	No further survey or evaluation recommended at this time		
PAX-2019	No further survey or evaluation recommended at this time		
PAX-2020	No further survey or evaluation recommended at this time		
PAX-2021	No further survey or evaluation recommended at this time		
PAX-2501	No further survey or evaluation recommended at this time		
PAX-2502	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
PAX-2503	No further survey or evaluation recommended at this time		
PAX-2504	No further survey or evaluation recommended at this time		
PAX-2505	No further survey or evaluation recommended at this time		
PAX-2506	No further survey or evaluation recommended at this time		
PAX-2507	No further survey or evaluation recommended at this time		
PAX-2508	No further survey or evaluation recommended at this time		
PAX-2509	No further survey or evaluation recommended at this time		
PAX-2510	No further survey or evaluation recommended at this time		
PAX-2511	No further survey or evaluation recommended at this time		
PAX-2514	No further survey or evaluation recommended at this time		
PAX-2515	No further survey or evaluation recommended at this time		
PAX-2516	No further survey or evaluation recommended at this time		
PAX-2518	No further survey or evaluation recommended at this time		
PAX-2519	No further survey or evaluation recommended at this time		
PAX-2520	No further survey or evaluation recommended at this time		
PAX-2521	No further survey or evaluation recommended at this time		
PAX-2522	No further survey or evaluation recommended at this time		
PAX-2523	No further survey or evaluation recommended at this time		
PAX-2524	No further survey or evaluation recommended at this time		
PAX-2525	No further survey or evaluation recommended at this time		
PAX-2529	No further survey or evaluation recommended at this time		
PAX-2530	No further survey or evaluation recommended at this time		
PAX-2531	No further survey or evaluation recommended at this time		
PAX-2537	No further survey or evaluation recommended at this time		
PAX-2538	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
PAX-2539	No further survey or evaluation recommended at this time		
PAX-2540	No further survey or evaluation recommended at this time		
PAX-2541	No further survey or evaluation recommended at this time		
PAX-2542	No further survey or evaluation recommended at this time		
PAX-2559	No further survey or evaluation recommended at this time		
PAX-2560	No further survey or evaluation recommended at this time		
PAX-2561	No further survey or evaluation recommended at this time		
PAX-3002	No further survey or evaluation recommended at this time		
PAX-3003	No further survey or evaluation recommended at this time		
PAX-3004	No further survey or evaluation recommended at this time		
PAX-3005	No further survey or evaluation recommended at this time		
PAX-3006	No further survey or evaluation recommended at this time		
PAX-3007	No further survey or evaluation recommended at this time		
PAX-3008	No further survey or evaluation recommended at this time		
PAX-3009	No further survey or evaluation recommended at this time		
PAX-3011	No further survey or evaluation recommended at this time		
PAX-3012	No further survey or evaluation recommended at this time		
PAX-3014	No further survey or evaluation recommended at this time		
PAX-3016	No further survey or evaluation recommended at this time		
PAX-3017	No further survey or evaluation recommended at this time		
PAX-3018	Significant cultural resources coordination expected--high archaeology potential		
PAX-3021	No further survey or evaluation recommended at this time		
PAX-3024	No further survey or evaluation recommended at this time		
PAX-3025	No further survey or evaluation recommended at this time		
PAX-3026	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
PAX-3801	No further survey or evaluation recommended at this time		
PAX-3802	No further survey or evaluation recommended at this time		
PAX-4001	No further survey or evaluation recommended at this time		
PAX-4003	No further survey or evaluation recommended at this time		
PAX-4004	No further survey or evaluation recommended at this time		
PAX-4006	No further survey or evaluation recommended at this time		
PAX-4007	No further survey or evaluation recommended at this time		
WAS-0010	No further survey or evaluation recommended at this time		
WAS-0012	No further survey or evaluation recommended at this time		
WAS-0013	No further survey or evaluation recommended at this time		
WAS-0070	No further survey or evaluation recommended at this time		
WAS-0072	No further survey or evaluation recommended at this time		
WAS-0073	No further survey or evaluation recommended at this time		
WAS-0074	No further survey or evaluation recommended at this time		
WAS-0075	No further survey or evaluation recommended at this time		
WAS-0076	No further survey or evaluation recommended at this time		
WAS-0077	No further survey or evaluation recommended at this time		
WAS-0078	No further survey or evaluation recommended at this time		
WAS-0081	No further survey or evaluation recommended at this time		
WAS-0082	No further survey or evaluation recommended at this time		
WAS-0083	No further survey or evaluation recommended at this time		
WAS-0084	No further survey or evaluation recommended at this time		
WAS-0085	No further survey or evaluation recommended at this time		
WAS-0086	No further survey or evaluation recommended at this time		
WAS-0301	Moderate cultural resources coordination expected	PG: 75B-1 Capitol Heights District	MHT concurrence on DOE not expected until August 2021

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-0302	No further survey or evaluation recommended at this time		
WAS-0303	No further survey or evaluation recommended at this time		
WAS-0304	No further survey or evaluation recommended at this time		
WAS-0307	No further survey or evaluation recommended at this time		
WAS-0312	No further survey or evaluation recommended at this time		
WAS-0313	No further survey or evaluation recommended at this time		
WAS-0315	No further survey or evaluation recommended at this time		
WAS-0317	No further survey or evaluation recommended at this time		
WAS-0318	Cultural resources coordination expected (eligible or listed structure)	NRHP-listed Suitland Parkway boundary (PG:76A-22)	not expected to impact NPS lands
WAS-0319	No further survey or evaluation recommended at this time		
WAS-0320	No further survey or evaluation recommended at this time		
WAS-0321	No further survey or evaluation recommended at this time		
WAS-0322	No further survey or evaluation recommended at this time		
WAS-0326	No further survey or evaluation recommended at this time		
WAS-0328	No further survey or evaluation recommended at this time		
WAS-0333	No further survey or evaluation recommended at this time		
WAS-0334	No further survey or evaluation recommended at this time		
WAS-0340	No further survey or evaluation recommended at this time		
WAS-0342	No further survey or evaluation recommended at this time		
WAS-0343	No further survey or evaluation recommended at this time		
WAS-0345	No further survey or evaluation recommended at this time		
WAS-0346	No further survey or evaluation recommended at this time		
WAS-0347	No further survey or evaluation recommended at this time		
WAS-0348	No further survey or evaluation recommended at this time		
WAS-0606	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-0610	No further survey or evaluation recommended at this time		
WAS-0614	No further survey or evaluation recommended at this time		
WAS-0615	No further survey or evaluation recommended at this time		
WAS-0616	No further survey or evaluation recommended at this time		
WAS-0617	No further survey or evaluation recommended at this time		
WAS-0623	No further survey or evaluation recommended at this time		
WAS-0624	No further survey or evaluation recommended at this time		
WAS-0625	No further survey or evaluation recommended at this time		
WAS-0626	No further survey or evaluation recommended at this time		
WAS-0627	No further survey or evaluation recommended at this time		
WAS-0628	No further survey or evaluation recommended at this time		
WAS-0634	No further survey or evaluation recommended at this time		
WAS-0638	No further survey or evaluation recommended at this time		
WAS-0641	No further survey or evaluation recommended at this time		
WAS-0644	No further survey or evaluation recommended at this time		
WAS-0647	No further survey or evaluation recommended at this time		
WAS-0649	No further survey or evaluation recommended at this time		
WAS-0650	No further survey or evaluation recommended at this time		
WAS-0651	No further survey or evaluation recommended at this time		
WAS-0652	No further survey or evaluation recommended at this time		
WAS-0901	No further survey or evaluation recommended at this time		
WAS-0903	No further survey or evaluation recommended at this time		
WAS-0905	No further survey or evaluation recommended at this time		
WAS-0906	No further survey or evaluation recommended at this time		
WAS-0911	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-0913	No further survey or evaluation recommended at this time		
WAS-0918	No further survey or evaluation recommended at this time		
WAS-0922	No further survey or evaluation recommended at this time		
WAS-0923	No further survey or evaluation recommended at this time		
WAS-0925	No further survey or evaluation recommended at this time		
WAS-0929	No further survey or evaluation recommended at this time		
WAS-0932	No further survey or evaluation recommended at this time		
WAS-0933	No further survey or evaluation recommended at this time		
WAS-0934	No further survey or evaluation recommended at this time		
WAS-0937	No further survey or evaluation recommended at this time		
WAS-0938	Significant cultural resources coordination expected--high archaeology potential		
WAS-0939	No further survey or evaluation recommended at this time		
WAS-0946	No further survey or evaluation recommended at this time		
WAS-0957	No further survey or evaluation recommended at this time		
WAS-0968	No further survey or evaluation recommended at this time		
WAS-0969	No further survey or evaluation recommended at this time		
WAS-0971	No further survey or evaluation recommended at this time		
WAS-0972	Minor cultural resources coordination expected (structures DOE[s])		MHT concurrence on DOE not expected until August 2021
WAS-0975	No further survey or evaluation recommended at this time		
WAS-0979	No further survey or evaluation recommended at this time		
WAS-0980	Significant cultural resources coordination expected--high archaeology potential		
WAS-0984	No further survey or evaluation recommended at this time		
WAS-0985	No further survey or evaluation recommended at this time		
WAS-0987	No further survey or evaluation recommended at this time		
WAS-0988	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-0989	No further survey or evaluation recommended at this time		
WAS-0990	No further survey or evaluation recommended at this time		
WAS-0992	Significant cultural resources coordination expected--high archaeology potential & eligible or listed historic structure	PG:84-23 Piscataway Village Historic District	MHT concurrence on DOE not expected until August 2021
WAS-0995	No further survey or evaluation recommended at this time		
WAS-0996	No further survey or evaluation recommended at this time		
WAS-0999	No further survey or evaluation recommended at this time		
WAS-1000	No further survey or evaluation recommended at this time		
WAS-1001	No further survey or evaluation recommended at this time		
WAS-1002	No further survey or evaluation recommended at this time		
WAS-1003	No further survey or evaluation recommended at this time		
WAS-1004	No further survey or evaluation recommended at this time		
WAS-1005	No further survey or evaluation recommended at this time		
WAS-1006	No further survey or evaluation recommended at this time		
WAS-1007	No further survey or evaluation recommended at this time		
WAS-1009	No further survey or evaluation recommended at this time		
WAS-1010	No further survey or evaluation recommended at this time		
WAS-1011	No further survey or evaluation recommended at this time		
WAS-2003	No further survey or evaluation recommended at this time		
WAS-2004	No further survey or evaluation recommended at this time		
WAS-2010	No further survey or evaluation recommended at this time		
WAS-2012	Minor cultural resources coordination expected (eligible or listed structure)	BARC (PG:62-14)	MHT concurrence on DOE not expected until August 2021
WAS-2016	No further survey or evaluation recommended at this time		
WAS-2018	No further survey or evaluation recommended at this time		
WAS-2019	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-2022	No further survey or evaluation recommended at this time		
WAS-2023	No further survey or evaluation recommended at this time		
WAS-2024	No further survey or evaluation recommended at this time		
WAS-2025	No further survey or evaluation recommended at this time		
WAS-2026	No further survey or evaluation recommended at this time		
WAS-2027	No further survey or evaluation recommended at this time		
WAS-2028	No further survey or evaluation recommended at this time		
WAS-2029	No further survey or evaluation recommended at this time		
WAS-2030	No further survey or evaluation recommended at this time		
WAS-2032	No further survey or evaluation recommended at this time		
WAS-2033	No further survey or evaluation recommended at this time		
WAS-2034	No further survey or evaluation recommended at this time		
WAS-2035	No further survey or evaluation recommended at this time		
WAS-2036	No further survey or evaluation recommended at this time		
WAS-2037	No further survey or evaluation recommended at this time		
WAS-2038	No further survey or evaluation recommended at this time		
WAS-2039	No further survey or evaluation recommended at this time		
WAS-2040	No further survey or evaluation recommended at this time		
WAS-2041	Minor cultural resources coordination expected (structures DOE[s])		MHT concurrence on DOE not expected until August 2021
WAS-2042	No further survey or evaluation recommended at this time		
WAS-2043	No further survey or evaluation recommended at this time		
WAS-2044	No further survey or evaluation recommended at this time		
WAS-2048	No further survey or evaluation recommended at this time		
WAS-2050	No further survey or evaluation recommended at this time		
WAS-2051	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-2056	Minor cultural resources coordination expected (eligible or listed structure)	PG: 68-4 Riverdale Park HD	MHT concurrence on DOE not expected until August 2021
WAS-2057	No further survey or evaluation recommended at this time		
WAS-2059	No further survey or evaluation recommended at this time		
WAS-2062	No further survey or evaluation recommended at this time		
WAS-2063	Moderate cultural resources coordination expected (eligible or listed structure)	NRHP listed Hyattsville Historic District (PG:68-10)	
WAS-2064	No further survey or evaluation recommended at this time		
WAS-2066	No further survey or evaluation recommended at this time		
WAS-2067	Moderate cultural resources coordination expected (eligible or listed structure)	NRHP listed Hyattsville Historic District (PG:68-10)	
WAS-2068	Moderate cultural resources coordination expected (eligible or listed structure)	NRHP listed Hyattsville Historic District (PG:68-10)	
WAS-2069	Moderate cultural resources coordination expected (eligible or listed structure)	NRHP listed Hyattsville Historic District (PG:68-10)	
WAS-2070	Moderate cultural resources coordination expected (eligible or listed structure)	NRHP listed Hyattsville Historic District (PG:68-10)	
WAS-2071	Moderate cultural resources coordination expected (eligible or listed structure)	NRHP listed Hyattsville Historic District (PG:68-10)	
WAS-2072	Minor cultural resources coordination expected (eligible or listed structure)	PG:68-10 Hyattsville Historic District	MHT concurrence on DOE not expected until August 2021
WAS-2073	No further survey or evaluation recommended at this time		
WAS-2074	No further survey or evaluation recommended at this time		
WAS-2075	No further survey or evaluation recommended at this time		
WAS-2076	No further survey or evaluation recommended at this time		
WAS-2078	No further survey or evaluation recommended at this time		
WAS-2079	No further survey or evaluation recommended at this time		
WAS-2501	No further survey or evaluation recommended at this time		
WAS-2502	No further survey or evaluation recommended at this time		
WAS-2503	No further survey or evaluation recommended at this time		
WAS-2504	No further survey or evaluation recommended at this time		
WAS-2505	No further survey or evaluation recommended at this time		
WAS-2506	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-2507	No further survey or evaluation recommended at this time		
WAS-2508	No further survey or evaluation recommended at this time		
WAS-2509	No further survey or evaluation recommended at this time		
WAS-2510	No further survey or evaluation recommended at this time		
WAS-2511	No further survey or evaluation recommended at this time		
WAS-2512	Minor cultural resources coordination expected (structures DOE[s])		MHT concurrence on DOE not expected until August 2021
WAS-2513	No further survey or evaluation recommended at this time		
WAS-2514	No further survey or evaluation recommended at this time		
WAS-2515	No further survey or evaluation recommended at this time		
WAS-2518	No further survey or evaluation recommended at this time		
WAS-2519	No further survey or evaluation recommended at this time		
WAS-2520	No further survey or evaluation recommended at this time		
WAS-2522	No further survey or evaluation recommended at this time		
WAS-2525	No further survey or evaluation recommended at this time		
WAS-2526	No further survey or evaluation recommended at this time		
WAS-2527	No further survey or evaluation recommended at this time		
WAS-2528	No further survey or evaluation recommended at this time		
WAS-2529	No further survey or evaluation recommended at this time		
WAS-2530	No further survey or evaluation recommended at this time		
WAS-2531	No further survey or evaluation recommended at this time		
WAS-2532	No further survey or evaluation recommended at this time		
WAS-2533	No further survey or evaluation recommended at this time		
WAS-2534	No further survey or evaluation recommended at this time		
WAS-2535	No further survey or evaluation recommended at this time		
WAS-2536	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-2537	No further survey or evaluation recommended at this time		
WAS-2538	No further survey or evaluation recommended at this time		
WAS-2539	No further survey or evaluation recommended at this time		
WAS-2540	No further survey or evaluation recommended at this time		
WAS-2541	No further survey or evaluation recommended at this time		
WAS-2542	No further survey or evaluation recommended at this time		
WAS-2543	No further survey or evaluation recommended at this time		
WAS-2548	No further survey or evaluation recommended at this time		
WAS-2549	No further survey or evaluation recommended at this time		
WAS-2551	No further survey or evaluation recommended at this time		
WAS-2553	No further survey or evaluation recommended at this time		
WAS-2554	No further survey or evaluation recommended at this time		
WAS-2555	No further survey or evaluation recommended at this time		
WAS-2556	No further survey or evaluation recommended at this time		
WAS-2557	No further survey or evaluation recommended at this time		
WAS-2558	No further survey or evaluation recommended at this time		
WAS-2559	No further survey or evaluation recommended at this time		
WAS-2560	No further survey or evaluation recommended at this time		
WAS-2562	No further survey or evaluation recommended at this time		
WAS-2564	No further survey or evaluation recommended at this time		
WAS-2565	No further survey or evaluation recommended at this time		
WAS-2567	No further survey or evaluation recommended at this time		
WAS-2568	No further survey or evaluation recommended at this time		
WAS-2569	No further survey or evaluation recommended at this time		
WAS-2571	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-2572	No further survey or evaluation recommended at this time		
WAS-2573	No further survey or evaluation recommended at this time		
WAS-2574	No further survey or evaluation recommended at this time		
WAS-2575	No further survey or evaluation recommended at this time		
WAS-2576	No further survey or evaluation recommended at this time		
WAS-2577	No further survey or evaluation recommended at this time		
WAS-2578	No further survey or evaluation recommended at this time		
WAS-2579	No further survey or evaluation recommended at this time		
WAS-2580	No further survey or evaluation recommended at this time		
WAS-2581	No further survey or evaluation recommended at this time		
WAS-2582	No further survey or evaluation recommended at this time		
WAS-2583	No further survey or evaluation recommended at this time		
WAS-2584	No further survey or evaluation recommended at this time		
WAS-2585	No further survey or evaluation recommended at this time		
WAS-2586	No further survey or evaluation recommended at this time		
WAS-2587	No further survey or evaluation recommended at this time		
WAS-2588	No further survey or evaluation recommended at this time		
WAS-2589	No further survey or evaluation recommended at this time		
WAS-2590	No further survey or evaluation recommended at this time		
WAS-2591	No further survey or evaluation recommended at this time		
WAS-2592	No further survey or evaluation recommended at this time		
WAS-2593	No further survey or evaluation recommended at this time		
WAS-2594	No further survey or evaluation recommended at this time		
WAS-2595	No further survey or evaluation recommended at this time		
WAS-2596	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-2599	No further survey or evaluation recommended at this time		
WAS-2600	No further survey or evaluation recommended at this time		
WAS-2601	No further survey or evaluation recommended at this time		
WAS-2602	No further survey or evaluation recommended at this time		
WAS-2603	No further survey or evaluation recommended at this time		
WAS-2604	No further survey or evaluation recommended at this time		
WAS-2605	No further survey or evaluation recommended at this time		
WAS-2606	No further survey or evaluation recommended at this time		
WAS-2608	No further survey or evaluation recommended at this time		
WAS-2609	No further survey or evaluation recommended at this time		
WAS-2610	No further survey or evaluation recommended at this time		
WAS-2611	No further survey or evaluation recommended at this time		
WAS-2612	No further survey or evaluation recommended at this time		
WAS-2613	No further survey or evaluation recommended at this time		
WAS-2614	No further survey or evaluation recommended at this time		
WAS-2615	No further survey or evaluation recommended at this time		
WAS-3301	No further survey or evaluation recommended at this time		
WAS-3302	No further survey or evaluation recommended at this time		
WAS-3303	No further survey or evaluation recommended at this time		
WAS-3305	No further survey or evaluation recommended at this time		
WAS-3306	No further survey or evaluation recommended at this time		
WAS-3307	No further survey or evaluation recommended at this time		
WAS-3308	No further survey or evaluation recommended at this time		
WAS-3601	No further survey or evaluation recommended at this time		
WAS-3602	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-3603	No further survey or evaluation recommended at this time		
WAS-3604	No further survey or evaluation recommended at this time		
WAS-3606	No further survey or evaluation recommended at this time		
WAS-3607	No further survey or evaluation recommended at this time		
WAS-3608	No further survey or evaluation recommended at this time		
WAS-3609	No further survey or evaluation recommended at this time		
WAS-3611	No further survey or evaluation recommended at this time		
WAS-3612	No further survey or evaluation recommended at this time		
WAS-3613	No further survey or evaluation recommended at this time		
WAS-3614	No further survey or evaluation recommended at this time		
WAS-3615	No further survey or evaluation recommended at this time		
WAS-3616	No further survey or evaluation recommended at this time		
WAS-3617	No further survey or evaluation recommended at this time		
WAS-3618	No further survey or evaluation recommended at this time		
WAS-3619	No further survey or evaluation recommended at this time		
WAS-3621	No further survey or evaluation recommended at this time		
WAS-3622	No further survey or evaluation recommended at this time		
WAS-3623	No further survey or evaluation recommended at this time		
WAS-3625	Moderate cultural resources coordination expected (eligible or listed structure)	M: 36-4 Woodside Historic District	MHT concurrence on DOE not expected until August 2021
WAS-3626	No further survey or evaluation recommended at this time		
WAS-3628	No further survey or evaluation recommended at this time		
WAS-3629	No further survey or evaluation recommended at this time		
WAS-3631	No further survey or evaluation recommended at this time		
WAS-3632	No further survey or evaluation recommended at this time		
WAS-3633	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-3634	No further survey or evaluation recommended at this time		
WAS-3635	No further survey or evaluation recommended at this time		
WAS-3636	No further survey or evaluation recommended at this time		
WAS-3637	No further survey or evaluation recommended at this time		
WAS-3638	No further survey or evaluation recommended at this time		
WAS-3639	No further survey or evaluation recommended at this time		
WAS-3640	No further survey or evaluation recommended at this time		
WAS-3641	No further survey or evaluation recommended at this time		
WAS-3644	No further survey or evaluation recommended at this time		
WAS-3645	No further survey or evaluation recommended at this time		
WAS-3646	No further survey or evaluation recommended at this time		
WAS-3647	No further survey or evaluation recommended at this time		
WAS-3648	No further survey or evaluation recommended at this time		
WAS-3649	No further survey or evaluation recommended at this time		
WAS-3650	No further survey or evaluation recommended at this time		
WAS-3652	No further survey or evaluation recommended at this time		
WAS-3653	No further survey or evaluation recommended at this time		
WAS-3655	No further survey or evaluation recommended at this time		
WAS-3656	No further survey or evaluation recommended at this time		
WAS-3657	No further survey or evaluation recommended at this time		
WAS-3658	No further survey or evaluation recommended at this time		
WAS-3994	No further survey or evaluation recommended at this time		
WAS-3995	No further survey or evaluation recommended at this time		
WAS-3996	No further survey or evaluation recommended at this time		
WAS-3997	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-3999	No further survey or evaluation recommended at this time		
WAS-4000	No further survey or evaluation recommended at this time		
WAS-4002	Minor cultural resources coordination expected (structures DOE[s])		MHT concurrence on DOE not expected until August 2021
WAS-4006	No further survey or evaluation recommended at this time		
WAS-4010	No further survey or evaluation recommended at this time		
WAS-4011	No further survey or evaluation recommended at this time		
WAS-4013	Minor cultural resources coordination expected (eligible or listed structure)	M: 14-27 Cedar Grove HD	MHT concurrence on DOE not expected until August 2021
WAS-4014	No further survey or evaluation recommended at this time		
WAS-4015	No further survey or evaluation recommended at this time		
WAS-4016	No further survey or evaluation recommended at this time		
WAS-4017	No further survey or evaluation recommended at this time		
WAS-4018	No further survey or evaluation recommended at this time		
WAS-4019	No further survey or evaluation recommended at this time		
WAS-4020	Moderate cultural resources coordination expected (eligible or listed structure)	Sugarloaf Mountain HD M: 12-44	M: 12-16 may contribute to Sugarloaf Mtn. HD; concurrence on DOE not expected until Aug 2021
WAS-4021	Moderate cultural resources coordination expected (eligible or listed structure)	Sugarloaf Mountain HD M: 12-44	M: 12-16 may contribute to Sugarloaf Mtn. HD; concurrence on DOE not expected until Aug 2021
WAS-4022	No further survey or evaluation recommended at this time		
WAS-4023	No further survey or evaluation recommended at this time		
WAS-4024	Moderate cultural resources coordination expected (eligible or listed structure)	Sugarloaf Mountain HD M: 12-44	M: 12-12 may contribute to Sugarloaf Mtn HD; concurrence on DOE not expected until Aug 2021
WAS-4025	Minor cultural resources coordination expected (structures DOE[s])		MHT concurrence on DOE not expected until August 2021
WAS-4026	Minor cultural resources coordination expected (eligible or listed structure)	Sugarloaf Mountain HD M: 12-44	M: 12-14, M: 12-15 may contribute to Sugar Loaf Mtn HD; concurrence on DOE not expected until Aug 2021
WAS-4027	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-4029	No further survey or evaluation recommended at this time		
WAS-4030	No further survey or evaluation recommended at this time		
WAS-4031	No further survey or evaluation recommended at this time		
WAS-4032	No further survey or evaluation recommended at this time		
WAS-4037	No further survey or evaluation recommended at this time		
WAS-4038	No further survey or evaluation recommended at this time		
WAS-4040	No further survey or evaluation recommended at this time		
WAS-4045	No further survey or evaluation recommended at this time		
WAS-4047	No further survey or evaluation recommended at this time		
WAS-4048	No further survey or evaluation recommended at this time		
WAS-4050	No further survey or evaluation recommended at this time		
WAS-4052	Significant cultural resources coordination expected (eligible or listed structure)	NRHP eligible NIST (M: 20-47)	
WAS-4053	No further survey or evaluation recommended at this time		
WAS-4058	No further survey or evaluation recommended at this time		
WAS-4059	No further survey or evaluation recommended at this time		
WAS-4060	No further survey or evaluation recommended at this time		
WAS-4061	No further survey or evaluation recommended at this time		
WAS-4063	No further survey or evaluation recommended at this time		
WAS-4064	No further survey or evaluation recommended at this time		
WAS-4065	No further survey or evaluation recommended at this time		
WAS-4067	No further survey or evaluation recommended at this time		
WAS-4068	No further survey or evaluation recommended at this time		
WAS-4072	No further survey or evaluation recommended at this time		
WAS-4075	No further survey or evaluation recommended at this time		
WAS-4078	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-4079	No further survey or evaluation recommended at this time		
WAS-4083	No further survey or evaluation recommended at this time		
WAS-4084	No further survey or evaluation recommended at this time		
WAS-4086	No further survey or evaluation recommended at this time		
WAS-4087	Minor cultural resources coordination expected (eligible or listed structure)	M: 37-16 B&O Metropolitan Branch	MHT concurrence on DOE not expected until August 2021
WAS-4091	No further survey or evaluation recommended at this time		
WAS-4093	No further survey or evaluation recommended at this time		
WAS-4096	No further survey or evaluation recommended at this time		
WAS-4098	No further survey or evaluation recommended at this time		
WAS-4099	No further survey or evaluation recommended at this time		
WAS-4100	No further survey or evaluation recommended at this time		
WAS-4101	No further survey or evaluation recommended at this time		
WAS-4111	No further survey or evaluation recommended at this time		
WAS-4112	No further survey or evaluation recommended at this time		
WAS-4119	No further survey or evaluation recommended at this time		
WAS-4121	No further survey or evaluation recommended at this time		
WAS-4122	No further survey or evaluation recommended at this time		
WAS-4123	No further survey or evaluation recommended at this time		
WAS-4124	No further survey or evaluation recommended at this time		
WAS-4125	No further survey or evaluation recommended at this time		
WAS-4127	No further survey or evaluation recommended at this time		
WAS-4131	No further survey or evaluation recommended at this time		not expected to impact NPS lands
WAS-4132	No further survey or evaluation recommended at this time		
WAS-4134	No further survey or evaluation recommended at this time		
WAS-4135	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-4137	No further survey or evaluation recommended at this time		
WAS-4138	No further survey or evaluation recommended at this time		
WAS-4140	No further survey or evaluation recommended at this time		
WAS-4141	No further survey or evaluation recommended at this time		
WAS-4150	No further survey or evaluation recommended at this time		
WAS-4153	No further survey or evaluation recommended at this time		
WAS-4154	No further survey or evaluation recommended at this time		
WAS-4155	No further survey or evaluation recommended at this time		
WAS-4156	Moderate cultural resources coordination expected (eligible or listed structure)	M: 37-16 B&O Metropolitan Branch	M: 12-14-3; M: 12-4-1; MHT concurrence on DOE not expected until August 2021
WAS-4157	No further survey or evaluation recommended at this time		
WAS-4158	No further survey or evaluation recommended at this time		
WAS-4159	No further survey or evaluation recommended at this time		
WAS-4160	No further survey or evaluation recommended at this time		
WAS-4161	No further survey or evaluation recommended at this time		
WAS-4162	No further survey or evaluation recommended at this time		
WAS-4163	No further survey or evaluation recommended at this time		
WAS-4164	No further survey or evaluation recommended at this time		
WAS-4165	No further survey or evaluation recommended at this time		
WAS-4200	Moderate cultural resources coordination expected (eligible or listed structure)	NRHP-eligible Sugarloaf Mountain HD (M: 12-44)	
WAS-4201	Moderate cultural resources coordination expected (eligible or listed structure)	within NRHP-eligible Sugarloaf Mountain HD (M: 12-44)	
WAS-4202	Moderate cultural resources coordination expected (eligible or listed structure)	NRHP-eligible Sugarloaf Mountain HD (M: 12-44)	
WAS-4203	Moderate cultural resources coordination expected (eligible or listed structure)	NRHP-eligible Sugarloaf Mountain HD (M: 12-44)	
WAS-4204	Moderate cultural resources coordination expected		MIHP-listed structure avoided -- M: 12-21 Dickerson HD
WAS-4205	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-4206	No further survey or evaluation recommended at this time		
WAS-4208	Moderate cultural resources coordination expected (eligible or listed structure)	M: 17-01 Beallsville HD	MHT concurrence on DOE not expected until August 2021
WAS-4212	No further survey or evaluation recommended at this time		
WAS-4214	No further survey or evaluation recommended at this time		
WAS-4215	No further survey or evaluation recommended at this time		
WAS-4216	No further survey or evaluation recommended at this time		
WAS-4218	No further survey or evaluation recommended at this time		
WAS-4304	No further survey or evaluation recommended at this time		
WAS-4310	No further survey or evaluation recommended at this time		
WAS-4321	No further survey or evaluation recommended at this time		
WAS-4322	No further survey or evaluation recommended at this time		
WAS-4323	No further survey or evaluation recommended at this time		
WAS-4324	No further survey or evaluation recommended at this time		
WAS-4325	No further survey or evaluation recommended at this time		
WAS-4331	No further survey or evaluation recommended at this time		
WAS-4333	No further survey or evaluation recommended at this time		
WAS-4334	No further survey or evaluation recommended at this time		
WAS-4335	No further survey or evaluation recommended at this time		
WAS-4336	No further survey or evaluation recommended at this time		
WAS-4337	No further survey or evaluation recommended at this time		
WAS-4338	No further survey or evaluation recommended at this time		
WAS-4339	No further survey or evaluation recommended at this time		
WAS-4342	No further survey or evaluation recommended at this time		
WAS-4345	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-4347	Significant cultural resources coordination expected--high archaeology potential & eligible or listed structure	NRHP-listed Friends Advice (M: 18-15)	
WAS-4349	Significant cultural resources coordination expected--high archaeology potential & eligible or listed structure	NRHP-listed Friends Advice (M: 18-15)	
WAS-4352	Significant cultural resources coordination expected--high archaeology potential		
WAS-4353	Significant cultural resources coordination expected--high archaeology potential		
WAS-4354	Significant cultural resources coordination expected--high archaeology potential		
WAS-4355	No further survey or evaluation recommended at this time		
WAS-4356	Significant cultural resources coordination expected--high archaeology potential		
WAS-4361	Significant cultural resources coordination expected--high archaeology potential		
WAS-4362	Significant cultural resources coordination expected--high archaeology potential & DOE[s] needed for Architecture		MHT concurrence on DOE not expected until August 2021
WAS-4363	Significant cultural resources coordination expected--high archaeology potential & DOE[s] needed for Architecture		MHT concurrence on DOE not expected until August 2021
WAS-4364	Significant cultural resources coordination expected--high archaeology potential		
WAS-4366	No further survey or evaluation recommended at this time		
WAS-4370	No further survey or evaluation recommended at this time		
WAS-4371	No further survey or evaluation recommended at this time		
WAS-4373	No further survey or evaluation recommended at this time		
WAS-4375	No further survey or evaluation recommended at this time		
WAS-4376	No further survey or evaluation recommended at this time		
WAS-4377	No further survey or evaluation recommended at this time		
WAS-4378	No further survey or evaluation recommended at this time		
WAS-4382	No further survey or evaluation recommended at this time		
WAS-4383	No further survey or evaluation recommended at this time		
WAS-4385	No further survey or evaluation recommended at this time		
WAS-4386	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-4391	No further survey or evaluation recommended at this time		
WAS-4392	No further survey or evaluation recommended at this time		
WAS-4393	Minor cultural resources coordination expected		MIHP-listed structure avoided -- M: 18-24 Thomas Rawlings Farm
WAS-4394	No further survey or evaluation recommended at this time		
WAS-4397	Minor cultural resources coordination expected (structures DOE[s])		MHT concurrence on DOE not expected until August 2021
WAS-4402	No further survey or evaluation recommended at this time		
WAS-4404	Significant cultural resources coordination expected--high archaeology potential		
WAS-4405	Significant cultural resources coordination expected--high archaeology potential		
WAS-4406	No further survey or evaluation recommended at this time		
WAS-4407	No further survey or evaluation recommended at this time		
WAS-4411	Significant cultural resources coordination expected--high archaeology potential & DOE[s] needed for Architecture		MHT concurrence on DOE not expected until August 2021
WAS-4412	Significant cultural resources coordination expected--high archaeology potential & DOE[s] needed for Architecture		MHT concurrence on DOE not expected until August 2021
WAS-4413	Moderate cultural resources coordination expected		MIHP-listed structure avoided -- M: 18-23 Dawsonville Historic District & M: 18-23-2
WAS-4414	Moderate cultural resources coordination expected		MIHP-listed structure avoided -- M: 18-23 Dawsonville Historic District & M: 18-23-2
WAS-4415	No further survey or evaluation recommended at this time		
WAS-4423	No further survey or evaluation recommended at this time		
WAS-4424	No further survey or evaluation recommended at this time		
WAS-4425	No further survey or evaluation recommended at this time		
WAS-4426	No further survey or evaluation recommended at this time		
WAS-4427	No further survey or evaluation recommended at this time		
WAS-4428	No further survey or evaluation recommended at this time		
WAS-4429	Minor cultural resources coordination expected (structures DOE[s])		MHT concurrence on DOE not expected until August 2021

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-4431	No further survey or evaluation recommended at this time		
WAS-4432	No further survey or evaluation recommended at this time		
WAS-4433	No further survey or evaluation recommended at this time		
WAS-4441	No further survey or evaluation recommended at this time		
WAS-4442	No further survey or evaluation recommended at this time		
WAS-4443	No further survey or evaluation recommended at this time		
WAS-4444	No further survey or evaluation recommended at this time		
WAS-4445	No further survey or evaluation recommended at this time		
WAS-4446	No further survey or evaluation recommended at this time		
WAS-4447	Moderate cultural resources coordination expected--eligible or listed structure	NRHP-eligible Boyds -White Grounds HD (M: 18-8-1)	
WAS-4448	Moderate cultural resources coordination expected--eligible or listed structure	NRHP-eligible Boyds -White Grounds HD (M: 18-8-1)	
WAS-4449	Moderate cultural resources coordination expected--eligible or listed structure	NRHP-eligible Boyds -White Grounds HD (M: 18-8-1)	
WAS-4450	No further survey or evaluation recommended at this time		
WAS-4451	Moderate cultural resources coordination expected--eligible or listed structure	NRHP-eligible Boyds -White Grounds HD (M: 18-8-1)	
WAS-4452	No further survey or evaluation recommended at this time		
WAS-4453	No further survey or evaluation recommended at this time		
WAS-4454	No further survey or evaluation recommended at this time		
WAS-4455	No further survey or evaluation recommended at this time		
WAS-4456	No further survey or evaluation recommended at this time		
WAS-4457	No further survey or evaluation recommended at this time		
WAS-4459	Significant cultural resources coordination expected--high archaeology potential & DOE[s] needed for Architecture		MHT concurrence on DOE not expected until August 2021
WAS-4462	No further survey or evaluation recommended at this time		
WAS-4463	No further survey or evaluation recommended at this time		
WAS-4464	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-4474	No further survey or evaluation recommended at this time		
WAS-4475	No further survey or evaluation recommended at this time		
WAS-4476	No further survey or evaluation recommended at this time		
WAS-4477	No further survey or evaluation recommended at this time		
WAS-4478	No further survey or evaluation recommended at this time		
WAS-4479	No further survey or evaluation recommended at this time		
WAS-4481	No further survey or evaluation recommended at this time		
WAS-4482	No further survey or evaluation recommended at this time		
WAS-4483	No further survey or evaluation recommended at this time		
WAS-4484	No further survey or evaluation recommended at this time		
WAS-4486	No further survey or evaluation recommended at this time		
WAS-4487	No further survey or evaluation recommended at this time		
WAS-4488	No further survey or evaluation recommended at this time		
WAS-4489	No further survey or evaluation recommended at this time		
WAS-4491	No further survey or evaluation recommended at this time		
WAS-4493	No further survey or evaluation recommended at this time		
WAS-4494	No further survey or evaluation recommended at this time		
WAS-4495	No further survey or evaluation recommended at this time		
WAS-4497	No further survey or evaluation recommended at this time		
WAS-4498	No further survey or evaluation recommended at this time		
WAS-4499	No further survey or evaluation recommended at this time		
WAS-4502	No further survey or evaluation recommended at this time		
WAS-4506	No further survey or evaluation recommended at this time		
WAS-4509	No further survey or evaluation recommended at this time		
WAS-4513	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-4516	No further survey or evaluation recommended at this time		
WAS-4517	No further survey or evaluation recommended at this time		
WAS-4518	No further survey or evaluation recommended at this time		
WAS-4519	No further survey or evaluation recommended at this time		
WAS-4521	No further survey or evaluation recommended at this time		
WAS-4523	No further survey or evaluation recommended at this time		
WAS-4532	No further survey or evaluation recommended at this time		
WAS-4533	No further survey or evaluation recommended at this time		
WAS-4534	No further survey or evaluation recommended at this time		
WAS-4601	No further survey or evaluation recommended at this time		
WAS-4602	No further survey or evaluation recommended at this time		
WAS-4603	No further survey or evaluation recommended at this time		
WAS-4604	No further survey or evaluation recommended at this time		
WAS-4606	No further survey or evaluation recommended at this time		
WAS-4607	No further survey or evaluation recommended at this time		
WAS-4609	No further survey or evaluation recommended at this time		
WAS-4610	No further survey or evaluation recommended at this time		
WAS-4613	No further survey or evaluation recommended at this time		
WAS-4614	No further survey or evaluation recommended at this time		
WAS-4615	No further survey or evaluation recommended at this time		
WAS-4619	No further survey or evaluation recommended at this time		
WAS-4622	No further survey or evaluation recommended at this time		
WAS-4623	Minor cultural resources coordination expected (structures DOE[s])		MHT concurrence on DOE not expected until August 2021
WAS-4624	Moderate cultural resources coordination expected--eligible or listed structure	NRHP-listed Seneca Historic District (M: 17-63)	
WAS-4625	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-4626	No further survey or evaluation recommended at this time		
WAS-4627	No further survey or evaluation recommended at this time		
WAS-4628	No further survey or evaluation recommended at this time		
WAS-4629	No further survey or evaluation recommended at this time		
WAS-4630	No further survey or evaluation recommended at this time		
WAS-4631	No further survey or evaluation recommended at this time		
WAS-4632	No further survey or evaluation recommended at this time		
WAS-4633	No further survey or evaluation recommended at this time		
WAS-4635	No further survey or evaluation recommended at this time		
WAS-4636	No further survey or evaluation recommended at this time		
WAS-4637	No further survey or evaluation recommended at this time		
WAS-4638	No further survey or evaluation recommended at this time		
WAS-4639	No further survey or evaluation recommended at this time		
WAS-4640	No further survey or evaluation recommended at this time		
WAS-4641	No further survey or evaluation recommended at this time		
WAS-4642	No further survey or evaluation recommended at this time		
WAS-4644	No further survey or evaluation recommended at this time		
WAS-4645	No further survey or evaluation recommended at this time		
WAS-4646	No further survey or evaluation recommended at this time		
WAS-4647	No further survey or evaluation recommended at this time		
WAS-4651	No further survey or evaluation recommended at this time		
WAS-4652	No further survey or evaluation recommended at this time		
WAS-4653	No further survey or evaluation recommended at this time		
WAS-4655	No further survey or evaluation recommended at this time		
WAS-4656	No further survey or evaluation recommended at this time		

Site Name	Evaluation of Work Required	NRHP eligible/listed Sites or Structures	Comments
WAS-4657	No further survey or evaluation recommended at this time		
WAS-4658	No further survey or evaluation recommended at this time		
WAS-4659	No further survey or evaluation recommended at this time		
WAS-4660	No further survey or evaluation recommended at this time		
WAS-5301	No further survey or evaluation recommended at this time		
WAS-5302	No further survey or evaluation recommended at this time		
WAS-5304	No further survey or evaluation recommended at this time		
WAS-5306	No further survey or evaluation recommended at this time		
WAS-5307	No further survey or evaluation recommended at this time		
WAS-5308	No further survey or evaluation recommended at this time		
WAS-5310	No further survey or evaluation recommended at this time		
WAS-5311	No further survey or evaluation recommended at this time		
WAS-5312	No further survey or evaluation recommended at this time		
WAS-5313	No further survey or evaluation recommended at this time		
WAS-5314	No further survey or evaluation recommended at this time		
WAS-5315	No further survey or evaluation recommended at this time		
WAS-5316	No further survey or evaluation recommended at this time		
WAS-5317	No further survey or evaluation recommended at this time		
WAS-5601	Minor cultural resources coordination expected--eligible or listed structure	NRHP-eligible Ward House (M: 20-21)	
WAS-5602	Minor cultural resources coordination expected--eligible or listed structure	NRHP-eligible Sugarloaf Mountain HD (M: 12-44)	

APPENDIX C – FORESTRY EVALUATION

Compensatory Stormwater Management Sites
for the I-495 and I-270 Managed Lanes Study

APPENDIX C: Forestry Evaluations & Field Assessments

1. Background

The I-495 and I-270 Managed Lanes Study (MLS) is subject to the Maryland Reforestation Law (MD Natural Resources Code § 5-103) administered by the Maryland Department of Natural Resources (DNR) Forest Service. The Maryland Reforestation Law regulates state-funded highway construction projects, including their associated environmental mitigation sites, that impact one acre or more of forest, requiring avoidance and minimization of forest impacts to the extent practicable and acre-for-acre mitigation on public lands for unavoidable forest impacts. After avoidance and minimization efforts have been completed and one or more acres of forest clearing is still required, forest mitigation must occur according to a hierarchy, exhausting feasible opportunities at each level before moving to subsequent levels. The mitigation hierarchy requires a preference for on-site planting within the project corridor, followed by off-site planting on public land within the affected county and watershed, off-site planting on public land within the affected county or watershed, purchase of credits from approved forest mitigation banks within the affected county or watershed, and payment into the Maryland Reforestation Fund. Mitigation must occur within two years or three growing seasons of the completion of project construction. The Maryland Department of Transportation State Highway Administration (MDOT SHA) will comply with the forest mitigation requirements under the Maryland Reforestation Law for the construction of the MLS, including potential stormwater management (SWM) sites associated with compensatory environmental mitigation.

MDOT SHA conducted environmental field reviews on 754 potential sites identified for MLS SWM mitigation. These reviews were conducted on a rolling basis to quickly identify suitable sites to pursue for detailed SWM design. Unavoidable forest impacts associated with suitable compensatory SWM mitigation sites will require forest mitigation under the Maryland Reforestation Law. This report summarizes potential forest and specimen tree impacts and required mitigation associated with the potential compensatory SWM mitigation sites reviewed from September 18, 2020 to April 13, 2021.

2. Methodology and Assumptions

Environmental scientists conducted field reviews to evaluate potential forest and specimen tree impacts at each of the potential compensatory SWM mitigation sites. Forest is a subset of tree canopy and is defined in the Code of Maryland Regulations (COMAR, 2019) as, "a biological community dominated by trees and other woody plants covering a land area of 1 acre or larger. It includes an area that has been cut but not cleared (MD Natural Resources Code §5-103)." To determine forest impacts, environmental scientists field verified the accuracy of the tree canopy land cover class from the 1m resolution dataset, developed by the Chesapeake Conservancy's Conservation Innovation Center as part of the Chesapeake Bay High-Resolution Land Cover Project. The tree canopy dataset includes areas that do not meet the definition of forest, such as hedgerows or shade trees in residential areas. If forest was present on site and the tree cover data was inaccurate, environmental scientists sketched an accurate forest boundary using a handheld GPS. During the field reviews, data collection included the presence of specimen trees (yes/no), the presence of forest (yes/no), successional stage, dominant size class in inches, and condition of the forest. Up to five specimen trees were evaluated and surveyed per site. Sites with more than five specimen trees observed within the Limit of Disturbance (LOD) are recommended for removal from consideration for compensatory SWM mitigation. Tree condition assessments were conducted according to the following guidelines:

TREE CONDITION ASSESSMENT GUIDELINES

EXCELLENT - HEALTHY TREE WITH EXCEPTIONAL GROWTH FORM; NO VISIBLE DEFECTS; WELL-FORMED CROWN; FEW MINOR DEAD BRANCHES; THIS TREE CONDITION IS RARE.

GOOD - HEALTHY TREE; VERY MINOR DEFECTS/DECAY ACCEPTABLE WITH CALLOUS FORMING/COMPLETE; WELL-FORMED CROWN; MINOR LEAN AND/OR FEW MINOR/MAJOR DEAD BRANCHES ACCEPTABLE; VINES MAY BE GROWING ALONG TRUNK BUT NOT PRESENT WITHIN CROWN.

FAIR - HEALTH QUESTIONABLE/STRESS EVIDENT; STRUCTURALLY SOUND TREE; DEFECTS PRESENT THAT DO NOT AFFECT STRUCTURAL INTEGRITY; MODERATE LEAN; MINOR/MAJOR DEAD BRANCHES MAY BE PRESENT; CROWN NOT BROKEN OUT BUT NOT NECESSARILY WELL FORMED OR EVEN; VINES MAY BE GROWING ALONG TRUNK AND WITHIN CROWN.

EX. FAIR TREE COULD BE EXPERIENCING INSECT DAMAGE, OR EXHIBIT A GROWTH FORM THAT MAKES IT VERY SUSCEPTIBLE TO WIND DAMAGE IN AN OPEN SETTING.

POOR - SIGNIFICANT HEALTH PROBLEMS; MAY BE STRUCTURALLY UNSOUND; MAY BE DEAD OR DYING; MAY CONTAIN SIGNIFICANT DECAY; MAY HAVE BROKEN OR MISSING TOP/CROWN; MAY HAVE HEAVY LEAN; VINES MAY BE SIGNIFICANTLY AFFECTING TREE HEALTH.

NOTE: THESE GUIDELINES WERE DEVELOPED IN-HOUSE BASED ON THE PROFESSIONAL JUDGMENT OF OUR CERTIFIED ARBORISTS AND OTHER SENIOR ENVIRONMENTAL STAFF. THESE GUIDELINES SHOULD BE INCORPORATED INTO DOCUMENTS (SUCH AS FSD'S) WHENEVER A TREE ASSESSMENT IS CONDUCTED.

More detailed forest assessments will be required for Reforestation Law Compliance as design progresses to refine forest and specimen tree impact calculations for all sites that contain forest within the LODs.

3. Results

Of the 754 sites that were field reviewed, 189 sites have either forest and/or specimen trees within the site. One hundred and fifty-six (156) sites only contain forest, and 20 sites only have specimen trees. Thirteen (13) of the 189 sites have both forest and specimen tree conflicts (Sites PAX-0039, PAX-1206, WAS-0644, WAS-1001, WAS-1007, WAS-2018, WAS-4038, WAS-4208, WAS-4333, WAS-4375, WAS-4392, WAS-4462, and WAS-5306). Fifty-seven (57) specimen trees were surveyed within 33 of the sites. Tables C-1 and C-2 included below summarize the forest and specimen tree data collected at each field reviewed compensatory SWM mitigation site.

Table C-1. Specimen Tree and Forest Data for Field Reviewed Compensatory SWM Mitigation Sites

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
MO_00018	No	Yes	Mid	12-20"	Good
MO_00029	No	Yes	Mid-Late	12-20"	Good
MO_00047A	No	Yes	Mid	20_30	Good
MO_00051	No	Yes	Mid	12-20"	Good
MO_1540045	No	Yes	Mid	20_30	Good
MPAO_0014	No	Yes	Mid	12-20"	Good
MPAO_0015	No	Yes	Mid-Late	12-20"	Good
MPAO_0022-Backup	No	Yes	Mid	12-20"	Fair

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
MPOC_0006_0010_0011	No	Yes	Mid	12-20"	Good
MPOC_0008	No	Yes	Mid	12-20"	Good
MPOC-0009	No	Yes	Mid-Late	20_30	Good
PAX-0014	No	No	N/A	N/A	N/A
PAX-0016	No	No	N/A	N/A	N/A
PAX-0017	No	No	N/A	N/A	N/A
PAX-0018	No	No	N/A	N/A	N/A
PAX-0019	No	No	N/A	N/A	N/A
PAX-0020	No	No	N/A	N/A	N/A
PAX-0022	No	No	N/A	N/A	N/A
PAX-0026	No	Yes	Early	6-11"	Poor
PAX-0029	No	No	N/A	N/A	N/A
PAX-0030	No	Yes	Early-Mid	12-20"	Fair
PAX-0034	No	Yes	Early-Mid	6-11"	Fair
PAX-0039	Yes	Yes	Early	6-11"	Poor
PAX-0041	No	Yes	Early-Mid	6-11"	Fair
PAX-0042	No	No	N/A	N/A	N/A
PAX-0045	No	No	N/A	N/A	N/A
PAX-0046	No	No	N/A	N/A	N/A
PAX-0047	No	No	N/A	N/A	N/A
PAX-0048	No	No	N/A	N/A	N/A
PAX-0049	No	No	N/A	N/A	N/A
PAX-0051	No	No	N/A	N/A	N/A
PAX-0059	No	No	N/A	N/A	N/A
PAX-0061	No	No	N/A	N/A	N/A
PAX-0062	No	No	N/A	N/A	N/A
PAX-0063	No	No	N/A	N/A	N/A
PAX-0064	No	No	N/A	N/A	N/A
PAX-0076	No	Yes	Early-Mid	6-11"	Fair
PAX-0080	No	No	N/A	N/A	N/A
PAX-0301	No	No	N/A	N/A	N/A
PAX-0302	No	No	N/A	N/A	N/A
PAX-0304	No	No	N/A	N/A	N/A
PAX-0305	No	No	N/A	N/A	N/A
PAX-0308	No	No	N/A	N/A	N/A
PAX-0310	No	No	N/A	N/A	N/A
PAX-0311	No	No	N/A	N/A	N/A
PAX-0312	No	Yes	Early-Mid	6-11"	Fair
PAX-0313	No	No	N/A	N/A	N/A
PAX-0315	No	Yes	Mid	12-20"	Good

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
PAX-0601	No	No	N/A	N/A	N/A
PAX-0602	No	Yes	Early	2-6"	Fair
PAX-0608	No	No	N/A	N/A	N/A
PAX-0610	No	Yes	Mid	12-20"	Good
PAX-0616	No	Yes	Early-Mid	2-6"	Good
PAX-0618	No	No	N/A	N/A	N/A
PAX-0620	No	Yes	Mid	6-11"	Good
PAX-0621	No	Yes	Early-Mid	6-11"	Good
PAX-0622	No	No	N/A	N/A	N/A
PAX-0624	No	Yes	Mid	6-11"	Good
PAX-0625	No	No	N/A	N/A	N/A
PAX-0626	No	No	N/A	N/A	N/A
PAX-0641	No	No	N/A	N/A	N/A
PAX-0951	No	Yes	Mid-Late	20_30	Fair
PAX-0961	No	No	N/A	N/A	N/A
PAX-0965	Yes	No	N/A	N/A	N/A
PAX-1204	No	No	N/A	N/A	N/A
PAX-1205	No	Yes	Mid	12-20"	Good
PAX-1206	Yes	Yes	Mid	12-20"	Good
PAX-1209	No	Yes	Early-Mid	6-11"	Poor
PAX-1210	No	No	N/A	N/A	N/A
PAX-1211	No	Yes	Mid	6-11"	Fair
PAX-1213	No	No	N/A	N/A	N/A
PAX-1502	No	No	N/A	N/A	N/A
PAX-1504	No	Yes	Mid-Late	20_30	Excellent
PAX-1509	No	No	N/A	N/A	N/A
PAX-1510	No	No	N/A	N/A	N/A
PAX-2001	No	No	N/A	N/A	N/A
PAX-2005	No	Yes	Mid-Late	20_30	Good
PAX-2006	No	No	N/A	N/A	N/A
PAX-2007	No	No	N/A	N/A	N/A
PAX-2008	No	Yes	Early-Mid	6-11"	Fair
PAX-2009	No	No	N/A	N/A	N/A
PAX-2010	No	No	N/A	N/A	N/A
PAX-2012	No	No	N/A	N/A	N/A
PAX-2013	No	No	N/A	N/A	N/A
PAX-2015	No	No	N/A	N/A	N/A
PAX-2016	No	No	N/A	N/A	N/A
PAX-2017	No	No	N/A	N/A	N/A
PAX-2018	No	No	N/A	N/A	N/A

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
PAX-2019	No	Yes	Early-Mid	2-6"	Good
PAX-2020	No	No	N/A	N/A	N/A
PAX-2021	No	No	N/A	N/A	N/A
PAX-2501	No	No	N/A	N/A	N/A
PAX-2502	No	No	N/A	N/A	N/A
PAX-2503	No	No	N/A	N/A	N/A
PAX-2504	No	No	N/A	N/A	N/A
PAX-2505	No	Yes	Early-Mid	6-11"	Good
PAX-2506	No	Yes	Early-Mid	6-11"	Good
PAX-2507	No	Yes	Early-Mid	6-11"	Good
PAX-2508	No	Yes	Early-Mid	6-11"	Good
PAX-2509	No	Yes	Early-Mid	6-11"	Good
PAX-2510	No	No	N/A	N/A	N/A
PAX-2511	No	Yes	Early-Mid	6-11"	Good
PAX-2514	No	No	N/A	N/A	N/A
PAX-2515	No	No	N/A	N/A	N/A
PAX-2516	No	No	N/A	N/A	N/A
PAX-2518	No	No	N/A	N/A	N/A
PAX-2519	No	No	N/A	N/A	N/A
PAX-2520	No	No	N/A	N/A	N/A
PAX-2521	No	Yes	Early-Mid	6-11"	Good
PAX-2522	No	No	N/A	N/A	N/A
PAX-2523	No	No	N/A	N/A	N/A
PAX-2524	No	No	N/A	N/A	N/A
PAX-2525	No	No	N/A	N/A	N/A
PAX-2529	No	No	N/A	N/A	N/A
PAX-2530	No	No	N/A	N/A	N/A
PAX-2531	No	No	N/A	N/A	N/A
PAX-2537	No	No	N/A	N/A	N/A
PAX-2538	No	No	N/A	N/A	N/A
PAX-2539	No	No	N/A	N/A	N/A
PAX-2540	No	No	N/A	N/A	N/A
PAX-2541	No	No	N/A	N/A	N/A
PAX-2542	No	No	N/A	N/A	N/A
PAX-2559	No	No	N/A	N/A	N/A
PAX-2560	No	No	N/A	N/A	N/A
PAX-2561	No	No	N/A	N/A	N/A
PAX-3002	No	No	N/A	N/A	N/A
PAX-3003	No	Yes	Early-Mid	6-11"	Good
PAX-3004	No	No	N/A	N/A	N/A

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
PAX-3005	No	No	N/A	N/A	N/A
PAX-3006	No	No	N/A	N/A	N/A
PAX-3007	No	No	N/A	N/A	N/A
PAX-3008	No	No	N/A	N/A	N/A
PAX-3009	No	No	N/A	N/A	N/A
PAX-3011	No	No	N/A	N/A	N/A
PAX-3012	No	No	N/A	N/A	N/A
PAX-3014	No	No	N/A	N/A	N/A
PAX-3016	No	No	N/A	N/A	N/A
PAX-3017	No	No	N/A	N/A	N/A
PAX-3018	No	No	N/A	N/A	N/A
PAX-3021	Yes	No	N/A	N/A	N/A
PAX-3024	No	No	N/A	N/A	N/A
PAX-3025	No	Yes	Mid	6-11"	Fair
PAX-3026	No	Yes	Mid	6-11"	Fair
PAX-3801	No	Yes	Mid	12-20"	Good
PAX-3802	No	Yes	Early-Mid	6-11"	Good
PAX-4001	No	No	N/A	N/A	N/A
PAX-4003	No	No	N/A	N/A	N/A
PAX-4004	No	No	N/A	N/A	N/A
PAX-4006	No	No	N/A	N/A	N/A
PAX-4007	No	No	N/A	N/A	N/A
PG_00079-Backup	No	Yes	Mid-Late	12-20"	Good
SSS_150023	No	Yes	Mid	12-20"	Good
SSS_160023-Backup	No	Yes	Mid-Late	12-20"	Good
SSS_160065_160066	No	Yes	Early-Mid	6-11"	Fair
WAS-0010	No	No	N/A	N/A	N/A
WAS-0012	No	No	N/A	N/A	N/A
WAS-0013	No	No	N/A	N/A	N/A
WAS-0070	No	No	N/A	N/A	N/A
WAS-0072	No	No	N/A	N/A	N/A
WAS-0073	No	No	N/A	N/A	N/A
WAS-0074	No	Yes	Early-Mid	6-11"	Fair
WAS-0075	No	Yes	Early-Mid	6-11"	Fair
WAS-0076	No	No	N/A	N/A	N/A
WAS-0077	No	No	N/A	N/A	N/A
WAS-0078	No	No	N/A	N/A	N/A
WAS-0081	No	Yes	Early	2-6"	Fair
WAS-0082	No	No	N/A	N/A	N/A
WAS-0083	No	Yes	Early-Mid	6-11"	Poor

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-0084	No	Yes	Early-Mid	2-6"	Poor
WAS-0085	No	Yes	Mid	12-20"	Fair
WAS-0086	No	Yes	Early	2-6"	Fair
WAS-0301	No	No	N/A	N/A	N/A
WAS-0302	No	Yes	Early-Mid	6-11"	Poor
WAS-0303	No	No	N/A	N/A	N/A
WAS-0304	No	Yes	Mid	20_30	Fair
WAS-0307	No	No	N/A	N/A	N/A
WAS-0312	No	No	N/A	N/A	N/A
WAS-0313	No	No	N/A	N/A	N/A
WAS-0315	No	No	N/A	N/A	N/A
WAS-0317	No	No	N/A	N/A	N/A
WAS-0318	No	No	N/A	N/A	N/A
WAS-0319	No	No	N/A	N/A	N/A
WAS-0320	No	Yes	Early	2-6"	Poor
WAS-0321	No	Yes	Early	2-6"	Fair
WAS-0322	No	No	N/A	N/A	N/A
WAS-0326	No	No	N/A	N/A	N/A
WAS-0328	No	No	N/A	N/A	N/A
WAS-0333	No	Yes	Mid-Late	12-20"	Fair
WAS-0334	No	Yes	Early	2-6"	Fair
WAS-0340	No	Yes	Early	2-6"	Fair
WAS-0342	No	No	N/A	N/A	N/A
WAS-0343	No	No	N/A	N/A	N/A
WAS-0345	No	Yes	Early-Mid	2-6"	Fair
WAS-0346	No	No	N/A	N/A	N/A
WAS-0347	No	Yes	Early	6-11"	Poor
WAS-0348	No	Yes	Early	6-11"	Poor
WAS-0606	No	Yes	Early-Mid	12-20"	Poor
WAS-0610	No	Yes	Early-Mid	2-6"	Poor
WAS-0614	No	Yes	Early	6-11"	Poor
WAS-0615	No	No	N/A	N/A	N/A
WAS-0616	No	No	N/A	N/A	N/A
WAS-0617	No	No	N/A	N/A	N/A
WAS-0623	No	Yes	Mid	12-20"	Fair
WAS-0624	No	No	N/A	N/A	N/A
WAS-0625	No	No	N/A	N/A	N/A
WAS-0626	No	No	N/A	N/A	N/A
WAS-0627	Yes	No	N/A	N/A	N/A
WAS-0628	No	No	N/A	N/A	N/A

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-0634	No	Yes	Mid	12-20"	Fair
WAS-0638	No	Yes	Early-Mid	6-11"	Fair
WAS-0641	No	Yes	Early-Mid	6-11"	Poor
WAS-0644	Yes	Yes	Mid-Late	20_30	Good
WAS-0647	No	Yes	Mid-Late	12-20"	Good
WAS-0649	No	No	N/A	N/A	N/A
WAS-0650	No	Yes	Mid-Late	12-20"	Good
WAS-0651	No	Yes	Mid	12-20"	Fair
WAS-0652	No	No	N/A	N/A	N/A
WAS-0901	No	No	N/A	N/A	N/A
WAS-0903	No	No	N/A	N/A	N/A
WAS-0905	No	No	N/A	N/A	N/A
WAS-0906	No	Yes	Mid	6-11"	Fair
WAS-0911	No	Yes	Mid-Late	12-20"	Good
WAS-0913	No	No	N/A	N/A	N/A
WAS-0918	No	No	N/A	N/A	N/A
WAS-0922	No	Yes	Early-Mid	6-11"	Fair
WAS-0923	No	No	N/A	N/A	N/A
WAS-0925	No	No	N/A	N/A	N/A
WAS-0929	No	No	N/A	N/A	N/A
WAS-0932	No	No	N/A	N/A	N/A
WAS-0933	No	No	N/A	N/A	N/A
WAS-0934	No	No	N/A	N/A	N/A
WAS-0937	No	No	N/A	N/A	N/A
WAS-0938	No	No	N/A	N/A	N/A
WAS-0939	No	No	N/A	N/A	N/A
WAS-0946	No	No	N/A	N/A	N/A
WAS-0957	No	No	N/A	N/A	N/A
WAS-0968	No	No	N/A	N/A	N/A
WAS-0969	No	No	N/A	N/A	N/A
WAS-0971	No	No	N/A	N/A	N/A
WAS-0972	No	Yes	Early-Mid	12-20"	Good
WAS-0975	No	Yes	Mid	12-20"	Good
WAS-0979	No	No	N/A	N/A	N/A
WAS-0980	Yes	No	N/A	N/A	N/A
WAS-0984	No	No	N/A	N/A	N/A
WAS-0985	No	No	N/A	N/A	N/A
WAS-0987	No	No	N/A	N/A	N/A
WAS-0988	No	No	N/A	N/A	N/A
WAS-0989	No	No	N/A	N/A	N/A

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-0990	No	No	N/A	N/A	N/A
WAS-0992	No	No	N/A	N/A	N/A
WAS-0995	No	No	N/A	N/A	N/A
WAS-0996	No	Yes	Mid	12-20"	Good
WAS-0999	No	No	N/A	N/A	N/A
WAS-1000	No	Yes	Mid	6-11"	Fair
WAS-1001	Yes	Yes	Mid	6-11"	Fair
WAS-1002	No	No	N/A	N/A	N/A
WAS-1003	No	No	N/A	N/A	N/A
WAS-1004	No	Yes	Mid	12-20"	Good
WAS-1005	No	No	N/A	N/A	N/A
WAS-1006	No	Yes	Mid	12-20"	Good
WAS-1007	Yes	Yes	Early-Mid	6-11"	Good
WAS-1009	No	Yes	Mid	6-11"	Good
WAS-1010	No	Yes	Early-Mid	12-20"	Good
WAS-1011	No	No	N/A	N/A	N/A
WAS-2003	No	No	N/A	N/A	N/A
WAS-2004	No	No	N/A	N/A	N/A
WAS-2010	No	Yes	Early-Mid	6-11"	Fair
WAS-2012	No	No	N/A	N/A	N/A
WAS-2016	No	No	N/A	N/A	N/A
WAS-2018	Yes	Yes	Early-Mid	6-11"	Poor
WAS-2019	No	No	N/A	N/A	N/A
WAS-2022	No	No	N/A	N/A	N/A
WAS-2023	No	No	N/A	N/A	N/A
WAS-2024	No	No	N/A	N/A	N/A
WAS-2025	No	No	N/A	N/A	N/A
WAS-2026	No	No	N/A	N/A	N/A
WAS-2027	No	No	N/A	N/A	N/A
WAS-2028	No	No	N/A	N/A	N/A
WAS-2029	No	No	N/A	N/A	N/A
WAS-2030	No	No	N/A	N/A	N/A
WAS-2032	No	No	N/A	N/A	N/A
WAS-2033	No	No	N/A	N/A	N/A
WAS-2034	No	Yes	Mid	12-20"	Good
WAS-2035	No	No	N/A	N/A	N/A
WAS-2036	No	No	N/A	N/A	N/A
WAS-2037	No	No	N/A	N/A	N/A
WAS-2038	No	No	N/A	N/A	N/A
WAS-2039	No	No	N/A	N/A	N/A

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-2040	No	No	N/A	N/A	N/A
WAS-2041	No	No	N/A	N/A	N/A
WAS-2042	No	No	N/A	N/A	N/A
WAS-2043	No	No	N/A	N/A	N/A
WAS-2044	No	No	N/A	N/A	N/A
WAS-2048	No	No	N/A	N/A	N/A
WAS-2050	No	No	N/A	N/A	N/A
WAS-2051	No	No	N/A	N/A	N/A
WAS-2056	No	No	N/A	N/A	N/A
WAS-2057	No	No	N/A	N/A	N/A
WAS-2059	No	No	N/A	N/A	N/A
WAS-2062	No	No	N/A	N/A	N/A
WAS-2063	Yes	No	N/A	N/A	N/A
WAS-2064	No	No	N/A	N/A	N/A
WAS-2066	No	No	N/A	N/A	N/A
WAS-2067	No	No	N/A	N/A	N/A
WAS-2068	No	No	N/A	N/A	N/A
WAS-2069	No	No	N/A	N/A	N/A
WAS-2070	No	No	N/A	N/A	N/A
WAS-2071	No	No	N/A	N/A	N/A
WAS-2072	No	No	N/A	N/A	N/A
WAS-2073	No	No	N/A	N/A	N/A
WAS-2074	No	No	N/A	N/A	N/A
WAS-2075	No	Yes	Early	2-6"	Good
WAS-2076	No	Yes	Early-Mid	2-6"	Good
WAS-2078	No	No	N/A	N/A	N/A
WAS-2079	No	Yes	Early	2-6"	Good
WAS-2501	No	No	N/A	N/A	N/A
WAS-2502	No	No	N/A	N/A	N/A
WAS-2503	No	No	N/A	N/A	N/A
WAS-2504	No	No	N/A	N/A	N/A
WAS-2505	No	No	N/A	N/A	N/A
WAS-2506	No	No	N/A	N/A	N/A
WAS-2507	No	No	N/A	N/A	N/A
WAS-2508	No	No	N/A	N/A	N/A
WAS-2509	No	No	N/A	N/A	N/A
WAS-2510	No	No	N/A	N/A	N/A
WAS-2511	No	No	N/A	N/A	N/A
WAS-2512	No	No	N/A	N/A	N/A
WAS-2513	No	Yes	Early-Mid	6-11"	Good

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-2514	No	No	N/A	N/A	N/A
WAS-2515	No	No	N/A	N/A	N/A
WAS-2518	No	No	N/A	N/A	N/A
WAS-2519	No	Yes	Early-Mid	6-11"	Fair
WAS-2520	No	No	N/A	N/A	N/A
WAS-2522	No	No	N/A	N/A	N/A
WAS-2525	No	No	N/A	N/A	N/A
WAS-2526	No	No	N/A	N/A	N/A
WAS-2527	No	No	N/A	N/A	N/A
WAS-2528	No	No	N/A	N/A	N/A
WAS-2529	No	No	N/A	N/A	N/A
WAS-2530	No	No	N/A	N/A	N/A
WAS-2531	No	No	N/A	N/A	N/A
WAS-2532	No	No	N/A	N/A	N/A
WAS-2533	No	No	N/A	N/A	N/A
WAS-2534	No	No	N/A	N/A	N/A
WAS-2535	No	No	N/A	N/A	N/A
WAS-2536	No	No	N/A	N/A	N/A
WAS-2537	No	No	N/A	N/A	N/A
WAS-2538	No	No	N/A	N/A	N/A
WAS-2539	No	No	N/A	N/A	N/A
WAS-2540	No	No	N/A	N/A	N/A
WAS-2541	No	No	N/A	N/A	N/A
WAS-2542	No	Yes	Early-Mid	6-11"	Good
WAS-2543	No	Yes	Early-Mid	6-11"	Fair
WAS-2548	No	No	N/A	N/A	N/A
WAS-2549	No	No	N/A	N/A	N/A
WAS-2551	No	No	N/A	N/A	N/A
WAS-2553	No	No	N/A	N/A	N/A
WAS-2554	No	Yes	Mid	12-20"	Good
WAS-2555	No	Yes	Early-Mid	6-11"	Fair
WAS-2556	No	No	N/A	N/A	N/A
WAS-2557	No	No	N/A	N/A	N/A
WAS-2558	No	No	N/A	N/A	N/A
WAS-2559	No	No	N/A	N/A	N/A
WAS-2560	No	No	N/A	N/A	N/A
WAS-2562	No	No	N/A	N/A	N/A
WAS-2564	No	No	N/A	N/A	N/A
WAS-2565	No	No	N/A	N/A	N/A
WAS-2567	No	No	N/A	N/A	N/A

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-2568	No	No	N/A	N/A	N/A
WAS-2569	No	No	N/A	N/A	N/A
WAS-2571	No	No	N/A	N/A	N/A
WAS-2572	No	No	N/A	N/A	N/A
WAS-2573	No	No	N/A	N/A	N/A
WAS-2574	No	No	N/A	N/A	N/A
WAS-2575	No	No	N/A	N/A	N/A
WAS-2576	No	No	N/A	N/A	N/A
WAS-2577	No	No	N/A	N/A	N/A
WAS-2578	No	No	N/A	N/A	N/A
WAS-2579	No	No	N/A	N/A	N/A
WAS-2580	No	No	N/A	N/A	N/A
WAS-2581	No	No	N/A	N/A	N/A
WAS-2582	No	Yes	Early	2-6"	Poor
WAS-2583	No	Yes	Early	2-6"	Poor
WAS-2584	No	No	N/A	N/A	N/A
WAS-2585	No	No	N/A	N/A	N/A
WAS-2586	No	No	N/A	N/A	N/A
WAS-2587	No	No	N/A	N/A	N/A
WAS-2588	No	No	N/A	N/A	N/A
WAS-2589	No	No	N/A	N/A	N/A
WAS-2590	No	No	N/A	N/A	N/A
WAS-2591	No	No	N/A	N/A	N/A
WAS-2592	No	No	N/A	N/A	N/A
WAS-2593	No	No	N/A	N/A	N/A
WAS-2594	No	No	N/A	N/A	N/A
WAS-2595	No	No	N/A	N/A	N/A
WAS-2596	No	No	N/A	N/A	N/A
WAS-2599	No	No	N/A	N/A	N/A
WAS-2600	No	No	N/A	N/A	N/A
WAS-2601	No	No	N/A	N/A	N/A
WAS-2602	No	No	N/A	N/A	N/A
WAS-2603	No	No	N/A	N/A	N/A
WAS-2604	No	No	N/A	N/A	N/A
WAS-2605	No	Yes	Early-Mid	6-11"	Fair
WAS-2606	No	No	N/A	N/A	N/A
WAS-2608	No	No	N/A	N/A	N/A
WAS-2609	No	No	N/A	N/A	N/A
WAS-2610	No	Yes	Early-Mid	6-11"	Good
WAS-2611	No	No	N/A	N/A	N/A

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-2612	No	Yes	Early-Mid	6-11"	Fair
WAS-2613	No	No	N/A	N/A	N/A
WAS-2614	No	No	N/A	N/A	N/A
WAS-2615	No	No	N/A	N/A	N/A
WAS-3301	No	Yes	Early-Mid	6-11"	Fair
WAS-3302	No	Yes	Early-Mid	6-11"	Fair
WAS-3303	No	No	N/A	N/A	N/A
WAS-3305	No	No	N/A	N/A	N/A
WAS-3306	No	Yes	Mid-Late	12-20"	Good
WAS-3307	No	Yes	Early	2-6"	Good
WAS-3308	No	No	N/A	N/A	N/A
WAS-3601	No	No	N/A	N/A	N/A
WAS-3602	No	No	N/A	N/A	N/A
WAS-3603	No	No	N/A	N/A	N/A
WAS-3604	No	No	N/A	N/A	N/A
WAS-3606	No	No	N/A	N/A	N/A
WAS-3607	No	No	N/A	N/A	N/A
WAS-3608	Yes	No	N/A	N/A	N/A
WAS-3609	No	No	N/A	N/A	N/A
WAS-3611	No	No	N/A	N/A	N/A
WAS-3612	Yes	No	N/A	N/A	N/A
WAS-3613	No	No	N/A	N/A	N/A
WAS-3614	No	No	N/A	N/A	N/A
WAS-3615	No	No	N/A	N/A	N/A
WAS-3616	No	Yes	Early-Mid	6-11"	Poor
WAS-3617	No	No	N/A	N/A	N/A
WAS-3618	Yes	No	N/A	N/A	N/A
WAS-3619	No	No	N/A	N/A	N/A
WAS-3621	Yes	No	N/A	N/A	N/A
WAS-3622	Yes	No	N/A	N/A	N/A
WAS-3623	No	No	N/A	N/A	N/A
WAS-3625	No	No	N/A	N/A	N/A
WAS-3626	No	No	N/A	N/A	N/A
WAS-3628	No	No	N/A	N/A	N/A
WAS-3629	No	No	N/A	N/A	N/A
WAS-3631	No	No	N/A	N/A	N/A
WAS-3632	No	No	N/A	N/A	N/A
WAS-3633	No	No	N/A	N/A	N/A
WAS-3634	No	No	N/A	N/A	N/A
WAS-3635	No	No	N/A	N/A	N/A

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-3636	No	No	N/A	N/A	N/A
WAS-3637	No	No	N/A	N/A	N/A
WAS-3638	No	No	N/A	N/A	N/A
WAS-3639	No	No	N/A	N/A	N/A
WAS-3640	No	No	N/A	N/A	N/A
WAS-3641	No	No	N/A	N/A	N/A
WAS-3644	No	No	N/A	N/A	N/A
WAS-3645	No	No	N/A	N/A	N/A
WAS-3646	No	No	N/A	N/A	N/A
WAS-3647	No	No	N/A	N/A	N/A
WAS-3648	No	No	N/A	N/A	N/A
WAS-3649	No	No	N/A	N/A	N/A
WAS-3650	No	No	N/A	N/A	N/A
WAS-3652	No	No	N/A	N/A	N/A
WAS-3653	No	No	N/A	N/A	N/A
WAS-3655	No	No	N/A	N/A	N/A
WAS-3656	No	No	N/A	N/A	N/A
WAS-3657	No	No	N/A	N/A	N/A
WAS-3658	No	No	N/A	N/A	N/A
WAS-3994	No	Yes	Mid-Late	20_30	Fair
WAS-3995	No	No	N/A	N/A	N/A
WAS-3996	No	No	N/A	N/A	N/A
WAS-3997	No	Yes	Early-Mid	6-11"	Fair
WAS-3999	No	No	N/A	N/A	N/A
WAS-4000	No	No	N/A	N/A	N/A
WAS-4002	No	No	N/A	N/A	N/A
WAS-4006	Yes	No	N/A	N/A	N/A
WAS-4010	No	No	N/A	N/A	N/A
WAS-4011	No	No	N/A	N/A	N/A
WAS-4013	No	No	N/A	N/A	N/A
WAS-4014	Yes	No	N/A	N/A	N/A
WAS-4015	No	No	N/A	N/A	N/A
WAS-4016	No	Yes	Mid-Late	12-20"	Good
WAS-4018	No	No	N/A	N/A	N/A
WAS-4019	No	No	N/A	N/A	N/A
WAS-4020	No	No	N/A	N/A	N/A
WAS-4021	No	No	N/A	N/A	N/A
WAS-4022	No	No	N/A	N/A	N/A
WAS-4023	No	No	N/A	N/A	N/A
WAS-4024	No	No	N/A	N/A	N/A

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-4025	No	No	N/A	N/A	N/A
WAS-4026	No	No	N/A	N/A	N/A
WAS-4027	No	Yes	Early	6-11"	Fair
WAS-4029	No	Yes	Early	6-11"	Fair
WAS-4030	No	No	N/A	N/A	N/A
WAS-4031	No	No	N/A	N/A	N/A
WAS-4032	No	No	N/A	N/A	N/A
WAS-4037	No	No	N/A	N/A	N/A
WAS-4038	Yes	Yes	Mid-Late	20_30	Fair
WAS-4040	No	No	N/A	N/A	N/A
WAS-4045	No	No	N/A	N/A	N/A
WAS-4047	No	No	N/A	N/A	N/A
WAS-4048	No	No	N/A	N/A	N/A
WAS-4050	No	No	N/A	N/A	N/A
WAS-4052	No	No	N/A	N/A	N/A
WAS-4053	No	No	N/A	N/A	N/A
WAS-4058	No	No	N/A	N/A	N/A
WAS-4059	No	Yes	Early	2-6"	Fair
WAS-4060	No	No	N/A	N/A	N/A
WAS-4061	No	Yes	Early	2-6"	Fair
WAS-4063	Yes	No	N/A	N/A	N/A
WAS-4064	No	No	N/A	N/A	N/A
WAS-4065	No	No	N/A	N/A	N/A
WAS-4067	No	No	N/A	N/A	N/A
WAS-4068	No	No	N/A	N/A	N/A
WAS-4072	No	No	N/A	N/A	N/A
WAS-4075	No	Yes	Early	6-11"	Poor
WAS-4078	No	No	N/A	N/A	N/A
WAS-4079	No	Yes	Early	2-6"	Fair
WAS-4083	No	No	N/A	N/A	N/A
WAS-4084	No	No	N/A	N/A	N/A
WAS-4086	No	No	N/A	N/A	N/A
WAS-4087	No	Yes	Early-Mid	6-11"	Fair
WAS-4091	No	No	N/A	N/A	N/A
WAS-4093	No	No	N/A	N/A	N/A
WAS-4096	No	No	N/A	N/A	N/A
WAS-4098	No	No	N/A	N/A	N/A
WAS-4099	No	No	N/A	N/A	N/A
WAS-4100	No	No	N/A	N/A	N/A
WAS-4101	No	No	N/A	N/A	N/A

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-4107	No	No	N/A	N/A	N/A
WAS-4111	No	No	N/A	N/A	N/A
WAS-4112	No	No	N/A	N/A	N/A
WAS-4119	No	No	N/A	N/A	N/A
WAS-4121	No	No	N/A	N/A	N/A
WAS-4122	No	Yes	Early-Mid	6-11"	Fair
WAS-4123	No	No	N/A	N/A	N/A
WAS-4124	No	Yes	Early-Mid	6-11"	Fair
WAS-4125	No	No	N/A	N/A	N/A
WAS-4127	No	No	N/A	N/A	N/A
WAS-4131	No	No	N/A	N/A	N/A
WAS-4132	No	No	N/A	N/A	N/A
WAS-4134	No	No	N/A	N/A	N/A
WAS-4135	No	No	N/A	N/A	N/A
WAS-4137	No	No	N/A	N/A	N/A
WAS-4138	No	No	N/A	N/A	N/A
WAS-4140	No	No	N/A	N/A	N/A
WAS-4141	No	Yes	Early-Mid	6-11"	Poor
WAS-4150	No	No	N/A	N/A	N/A
WAS-4153	No	No	N/A	N/A	N/A
WAS-4154	No	No	N/A	N/A	N/A
WAS-4155	No	No	N/A	N/A	N/A
WAS-4156	No	No	N/A	N/A	N/A
WAS-4157	No	No	N/A	N/A	N/A
WAS-4158	No	No	N/A	N/A	N/A
WAS-4159	No	No	N/A	N/A	N/A
WAS-4160	No	Yes	Early	6-11"	Good
WAS-4161	No	Yes	Early	6-11"	Fair
WAS-4162	No	No	N/A	N/A	N/A
WAS-4163	No	No	N/A	N/A	N/A
WAS-4164	No	No	N/A	N/A	N/A
WAS-4165	No	No	N/A	N/A	N/A
WAS-4200	No	No	N/A	N/A	N/A
WAS-4201	No	No	N/A	N/A	N/A
WAS-4202	No	No	N/A	N/A	N/A
WAS-4203	No	Yes	Mid	6-11"	Good
WAS-4204	No	Yes	Mid	12-20"	Good
WAS-4205	Yes	No	N/A	N/A	N/A
WAS-4206	No	Yes	Mid	12-20"	Good
WAS-4208	Yes	Yes	Mid	12-20"	Good

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-4212	No	No	N/A	N/A	N/A
WAS-4214	No	No	N/A	N/A	N/A
WAS-4215	No	Yes	Mid-Late	12-20"	
WAS-4216	No	No	N/A	N/A	N/A
WAS-4218	No	No	N/A	N/A	N/A
WAS-4304	No	No	N/A	N/A	N/A
WAS-4310	No	No	N/A	N/A	N/A
WAS-4321	No	No	N/A	N/A	N/A
WAS-4322	No	No	N/A	N/A	N/A
WAS-4323	No	No	N/A	N/A	N/A
WAS-4324	No	No	N/A	N/A	N/A
WAS-4325	No	No	N/A	N/A	N/A
WAS-4331	No	Yes	Mid	12-20"	Fair
WAS-4333	Yes	Yes	Mid-Late	20_30	Fair
WAS-4334	No	Yes	Mid-Late	20_30	Fair
WAS-4335	No	Yes	Mid	12-20"	Fair
WAS-4336	No	No	N/A	N/A	N/A
WAS-4337	No	No	N/A	N/A	N/A
WAS-4338	No	No	N/A	N/A	N/A
WAS-4339	No	Yes	Mid	12-20"	Fair
WAS-4342	Yes	No	N/A	N/A	N/A
WAS-4345	No	Yes	Early	6-11"	Poor
WAS-4347	No	No	N/A	N/A	N/A
WAS-4349	No	No	N/A	N/A	N/A
WAS-4352	No	Yes	Mid	12-20"	Fair
WAS-4353	Yes	No	N/A	N/A	N/A
WAS-4354	No	No	N/A	N/A	N/A
WAS-4355	No	No	N/A	N/A	N/A
WAS-4356	Yes	No	N/A	N/A	N/A
WAS-4361	No	No	N/A	N/A	N/A
WAS-4362	Yes	No	N/A	N/A	N/A
WAS-4363	No	No	N/A	N/A	N/A
WAS-4364	No	No	N/A	N/A	N/A
WAS-4366	No	No	N/A	N/A	N/A
WAS-4370	No	Yes	Mid	12-20"	Fair
WAS-4371	No	Yes	Mid	12-20"	Good
WAS-4373	No	No	N/A	N/A	N/A
WAS-4375	Yes	Yes	Mid	12-20"	Good
WAS-4376	No	No	N/A	N/A	N/A
WAS-4377	No	No	N/A	N/A	N/A

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-4378	No	No	N/A	N/A	N/A
WAS-4382	No	Yes	Mid-Late	20_30	Good
WAS-4383	No	Yes	Mid	12-20"	Good
WAS-4385	No	Yes	Early-Mid	12-20"	Good
WAS-4386	No	No	N/A	N/A	N/A
WAS-4391	No	No	N/A	N/A	N/A
WAS-4392	Yes	Yes	Mid-Late	20_30	Excellent
WAS-4393	No	No	N/A	N/A	N/A
WAS-4394	No	No	N/A	N/A	N/A
WAS-4397	No	No	N/A	N/A	N/A
WAS-4402	No	No	N/A	N/A	N/A
WAS-4404	No	No	N/A	N/A	N/A
WAS-4405	No	No	N/A	N/A	N/A
WAS-4406	No	No	N/A	N/A	N/A
WAS-4407	No	No	N/A	N/A	N/A
WAS-4411	No	Yes	Mid-Late	12-20"	Good
WAS-4412	No	No	N/A	N/A	N/A
WAS-4413	No	No	N/A	N/A	N/A
WAS-4414	No	No	N/A	N/A	N/A
WAS-4415	No	No	N/A	N/A	N/A
WAS-4423	No	Yes	Mid-Late	20_30	Fair
WAS-4424	No	Yes	Mid	6-11"	Good
WAS-4425	No	Yes	Mid	12-20"	Fair
WAS-4426	No	No	N/A	N/A	N/A
WAS-4427	No	Yes	Mid-Late	20_30	Good
WAS-4428	No	No	N/A	N/A	N/A
WAS-4429	No	No	N/A	N/A	N/A
WAS-4431	No	No	N/A	N/A	N/A
WAS-4432	No	No	N/A	N/A	N/A
WAS-4433	No	No	N/A	N/A	N/A
WAS-4441	No	No	N/A	N/A	N/A
WAS-4442	No	No	N/A	N/A	N/A
WAS-4443	Yes	No	N/A	N/A	N/A
WAS-4444	No	No	N/A	N/A	N/A
WAS-4445	No	No	N/A	N/A	N/A
WAS-4446	No	No	N/A	N/A	N/A
WAS-4447	No	No	N/A	N/A	N/A
WAS-4448	No	No	N/A	N/A	N/A
WAS-4449	No	No	N/A	N/A	N/A
WAS-4450	No	Yes	Mid	6-11"	Good

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-4451	No	No	N/A	N/A	N/A
WAS-4452	No	No	N/A	N/A	N/A
WAS-4453	No	No	N/A	N/A	N/A
WAS-4454	No	No	N/A	N/A	N/A
WAS-4455	No	No	N/A	N/A	N/A
WAS-4456	No	No	N/A	N/A	N/A
WAS-4457	No	No	N/A	N/A	N/A
WAS-4459	No	No	N/A	N/A	N/A
WAS-4462	Yes	Yes	Early-Mid	6-11"	Fair
WAS-4463	No	Yes	Early-Mid	6-11"	Good
WAS-4464	No	No	N/A	N/A	N/A
WAS-4474	No	No	N/A	N/A	N/A
WAS-4475	No	No	N/A	N/A	N/A
WAS-4476	No	No	N/A	N/A	N/A
WAS-4477	No	No	N/A	N/A	N/A
WAS-4478	No	No	N/A	N/A	N/A
WAS-4479	No	No	N/A	N/A	N/A
WAS-4481	No	No	N/A	N/A	N/A
WAS-4482	No	No	N/A	N/A	N/A
WAS-4483	No	No	N/A	N/A	N/A
WAS-4484	No	No	N/A	N/A	N/A
WAS-4486	No	No	N/A	N/A	N/A
WAS-4487	No	No	N/A	N/A	N/A
WAS-4488	No	No	N/A	N/A	N/A
WAS-4489	Yes	No	N/A	N/A	N/A
WAS-4491	No	No	N/A	N/A	N/A
WAS-4493	No	No	N/A	N/A	N/A
WAS-4494	No	No	N/A	N/A	N/A
WAS-4495	No	Yes	Early-Mid	6-11"	Fair
WAS-4497	No	Yes	Early-Mid	12-20"	Fair
WAS-4498	No	No	N/A	N/A	N/A
WAS-4499	No	Yes	Early-Mid	6-11"	Fair
WAS-4502	No	Yes	Mid	12-20"	Fair
WAS-4506	No	No	N/A	N/A	N/A
WAS-4509	No	Yes	Mid	12-20"	Fair
WAS-4513	No	No	N/A	N/A	N/A
WAS-4516	No	No	N/A	N/A	N/A
WAS-4517	No	No	N/A	N/A	N/A
WAS-4518	No	Yes	Early-Mid	6-11"	Good
WAS-4519	No	Yes	Early-Mid	2-6"	Fair

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-4521	No	No	N/A	N/A	N/A
WAS-4523	No	No	N/A	N/A	N/A
WAS-4532	No	No	N/A	N/A	N/A
WAS-4533	No	No	N/A	N/A	N/A
WAS-4534	No	No	N/A	N/A	N/A
WAS-4601	No	No	N/A	N/A	N/A
WAS-4602	No	No	N/A	N/A	N/A
WAS-4603	No	No	N/A	N/A	N/A
WAS-4604	No	No	N/A	N/A	N/A
WAS-4606	No	No	N/A	N/A	N/A
WAS-4607	No	No	N/A	N/A	N/A
WAS-4609	No	No	N/A	N/A	N/A
WAS-4610	No	No	N/A	N/A	N/A
WAS-4613	No	No	N/A	N/A	N/A
WAS-4614	No	No	N/A	N/A	N/A
WAS-4615	No	No	N/A	N/A	N/A
WAS-4619	No	No	N/A	N/A	N/A
WAS-4622	No	No	N/A	N/A	N/A
WAS-4623	No	No	N/A	N/A	N/A
WAS-4624	No	No	N/A	N/A	N/A
WAS-4625	No	No	N/A	N/A	N/A
WAS-4626	No	No	N/A	N/A	N/A
WAS-4627	No	No	N/A	N/A	N/A
WAS-4628	No	No	N/A	N/A	N/A
WAS-4629	No	No	N/A	N/A	N/A
WAS-4630	No	No	N/A	N/A	N/A
WAS-4631	No	No	N/A	N/A	N/A
WAS-4632	No	Yes	Early-Mid	6-11"	Fair
WAS-4633	No	No	N/A	N/A	N/A
WAS-4635	No	No	N/A	N/A	N/A
WAS-4636	No	No	N/A	N/A	N/A
WAS-4637	No	No	N/A	N/A	N/A
WAS-4638	No	No	N/A	N/A	N/A
WAS-4639	No	Yes	Mid	12-20"	Good
WAS-4640	No	No	N/A	N/A	N/A
WAS-4641	No	Yes	Mid	12-20"	Fair
WAS-4642	No	No	N/A	N/A	N/A
WAS-4644	No	No	N/A	N/A	N/A
WAS-4645	No	Yes	Early-Mid	6-11"	Fair
WAS-4646	No	Yes	Early-Mid	6-11"	Good

SWM Site ID	Specimen Trees	Forest	Successional Stage	Size Class (DBH)	Condition
WAS-4647	No	No	N/A	N/A	N/A
WAS-4651	No	No	N/A	N/A	N/A
WAS-4652	No	No	N/A	N/A	N/A
WAS-4653	No	No	N/A	N/A	N/A
WAS-4655	No	No	N/A	N/A	N/A
WAS-4656	No	No	N/A	N/A	N/A
WAS-4657	No	No	N/A	N/A	N/A
WAS-4658	No	No	N/A	N/A	N/A
WAS-4659	No	No	N/A	N/A	N/A
WAS-4660	No	No	N/A	N/A	N/A
WAS-5301	No	No	N/A	N/A	N/A
WAS-5302	No	No	N/A	N/A	N/A
WAS-5304	No	No	N/A	N/A	N/A
WAS-5306	Yes	Yes	Mid-Late	12-20"	Good
WAS-5307	No	No	N/A	N/A	N/A
WAS-5308	No	No	N/A	N/A	N/A
WAS-5310	No	No	N/A	N/A	N/A
WAS-5311	No	No	N/A	N/A	N/A
WAS-5312	No	No	N/A	N/A	N/A
WAS-5313	No	No	N/A	N/A	N/A
WAS-5314	No	No	N/A	N/A	N/A
WAS-5315	No	No	N/A	N/A	N/A
WAS-5316	No	No	N/A	N/A	N/A
WAS-5317	No	No	N/A	N/A	N/A
WAS-5601	No	No	N/A	N/A	N/A
WAS-5602	No	No	N/A	N/A	N/A

Table C-2. Detailed Specimen Tree Data for Field Reviewed Compensatory SWM Mitigation Sites

SWM Site ID	Tree ID	Scientific Name	Common Name	DBH	Condition
PAX-0039	T1	*Pinus strobus*	White pine	32	Good-Excellent
	T2	*Pinus strobus*	White pine	32	Fair-Good
	T3	*Pinus strobus*	White pine	33	Fair
	T4	*Pinus strobus*	White pine	36	Poor
PAX-0965	T1	*Acer buergerianum*	Trident maple	40	Fair
PAX-1206	T1	*Liriodendron tulipifera*	Tulip poplar	48	Fair
	T2	*Quercus falcata*	Southern red oak	36	Good
PAX-3021	T1	*Acer rubrum*	Red maple	38	Good-Excellent
WAS-0627	T1	*Quercus palustris*	Pin oak	37	Fair
WAS-0644	T1	*Acer rubrum*	Red maple	36	Fair-Poor

SWM Site ID	Tree ID	Scientific Name	Common Name	DBH	Condition
	T2	*Quercus phellos*	Willow oak	33	Good
	T3	*Acer rubrum*	Red maple	32	Good
WAS-0980	T1	*Acer negundo*	Boxelder	30	Poor
WAS-1001	T4	*Quercus palustris*	Pin oak	41	Excellent
WAS-1007	T1	*Liriodendron tulipifera*	Tulip poplar	36	Good-Excellent
WAS-2018	T1	*Acer rubrum*	Red maple	46	Fair-Good
WAS-2063	T1	*Acer rubrum*	Red maple	36	Fair-Poor
WAS-3608	T1	*Liriodendron tulipifera*	Tulip poplar	37	Fair-Good
	T2	*Liriodendron tulipifera*	Tulip poplar	32	Good
	T3	*Liriodendron tulipifera*	Tulip poplar	36	Good
WAS-3612	T1	*Zelkova serrata*	Japanese Zelkova	31	Good-Excellent
WAS-3618	T1	*Quercus palustris*	Pin oak	30	Good
WAS-3621	T1	*Platanus occidentalis*	American sycamore	40	Fair
WAS-3622	T1	*Platanus occidentalis*	American sycamore	37	Good-Excellent
	T2	*Quercus palustris*	Pin oak	30	Good
	T3	*Fagus grandifolia*	American beech	31	Good-Excellent
	T4	*Liriodendron tulipifera*	Tulip poplar	32	Good-Excellent
	T5	*Platanus occidentalis*	American sycamore	36	Good
WAS-4006	T1	*Quercus alba*	White oak	33	Good
WAS-4014	T1	*Quercus phellos*	Willow oak	55	Good-Excellent
WAS-4038	T1	*Liriodendron tulipifera*	Tulip poplar	36	Fair-Good
WAS-4063	T1	*Quercus alba*	White oak	36	Fair-Good
	T2	*Quercus falcata*	Southern red oak	37	Fair
	T3	*Liriodendron tulipifera*	Tulip poplar	34	Good
	T4	*Quercus alba*	White oak	30	Fair
WAS-4205	T1	*Platanus occidentalis*	American sycamore	32	Good
	T2	*Platanus occidentalis*	American sycamore	41	Good
WAS-4208	T1	*Platanus occidentalis*	American sycamore	36	Poor
WAS-4333	T1	*Liriodendron tulipifera*	Tulip poplar	38	Poor
	T2	*Liriodendron tulipifera*	Tulip poplar	34	Poor
WAS-4342	T1	*Maclura pomifera*	Osage orange	32	Fair-Poor
	T2	*Maclura pomifera*	Osage orange	32	Fair-Poor
WAS-4353	T1	*Platanus occidentalis*	American sycamore	60	Fair-Good
WAS-4356	T1	*Platanus occidentalis*	American sycamore	40	Fair
WAS-4362	T1	*Platanus occidentalis*	American sycamore	51	Fair
	T2	*Platanus occidentalis*	American sycamore	39	Fair
WAS-4375	T1	*Acer rubrum*	Red maple	32	Fair-Good
	T2	*Acer rubrum*	Red maple	31	Good
WAS-4392	T1	*Quercus alba*	White oak	31	Good-Excellent
WAS-4443	T1	*Quercus alba*	White oak	45	Fair-Good
	T2	*Quercus alba*	White oak	46	Good

SWM Site ID	Tree ID	Scientific Name	Common Name	DBH	Condition
WAS-4462	T1	*Acer platanoides*	Norway maple	38	Fair
	T2	*Acer rubrum*	Red maple	36	Fair-Poor
WAS-4489	T1	*Quercus rubra*	Northern red oak	31	Good
WAS-5306	T1	*Platanus occidentalis*	American sycamore	36	Poor
	T3	*Quercus velutina*	Black oak	33	Fair-Good
	T5	*Quercus falcata*	Southern red oak	54	Good-Excellent
				TOTAL	**57 Trees**

4. Conclusion

MDOT SHA conducted environmental field reviews on 754 potential sites identified for MLS compensatory SWM mitigation. Of the reviewed sites, 189 have either forest and/or specimen tree conflicts, including 156 sites with forest, 20 sites with specimen trees, and 13 sites with both forest and specimen tree conflicts. The MLS, as a state-funded highway construction project that will impact over one acre of forest, is required to comply with the Maryland Reforestation Law. MDOT SHA will conduct avoidance and minimization measures to reduce forest and specimen tree impacts to the extent practicable, and provide acre-for-acre mitigation for unavoidable forest impacts associated with the construction of the MLS and its related environmental mitigation, including compensatory stormwater mitigation, according to the mitigation hierarchy specified in MD Natural Resources Code § 5-103.