Maryland Transportation Authority
MDTA

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October 31, 2023

Ms. Deborah Cappuccitti
Maryland Department of the Environment
Water and Science Administration
1800 Washington Boulevard
Baltimore, Maryland 21230

RE: National Pollutant Discharge Elimination System (NPDES)
MS4 Phase II General Discharge Permit No. 13-SF-5501
Progress Report – FY 2023

Dear Ms. Cappuccitti:

The Maryland Transportation Authority (MDTA) is pleased to submit our Progress Report for Year 5 of the NPDES Municipal Separate Storm Sewer System (MS4) Phase II General Permit. The submittal addresses MDE's comments on the Year 4 Progress Report for the six Minimum Control Measures (MCMs) and the Impervious Area reporting including:

- **BMP Costs:** Typical costs for BMPs implemented during the permit term are added to the Restoration Activity Schedule (RAS).
- **Road Salt Management:** MDTA implement best management practices to minimize the impacts of salt/brine application and storage including proper storage, calibrated applications to reduce application quantities, street sweeping, and annual employee training.
- **Chesapeake Bay Restoration:** MDTA acknowledges restoration may be required as part of the next MS4 general permit and is likely to be an additional 10% of the baseline to extend to Year 2030. Additional restoration goals will be negotiated as part of the permit renewal and are not final until the new permit is issued.

The FY23 submittal also highlights our actions during the past fiscal year (July 2022 through June 2023) to meet the Chesapeake Bay Restoration requirements. The following are highlights of MDTA's accomplishments:

- Continued to inspect and maintain BMPs used for baseline and restoration credit.
- Verified that the restoration goal has not changed since Year 4.
- Recomputed restoration credits based on stormwater management treatment from redevelopment projects, stormwater retrofit projects, and alternative urban BMPs such as street sweeping. MDTA has exceeded the TMDL restoration goal to date.

The following information is provided with this progress report:

- State and Federal Small MS4 Progress Report [Appendix D, Section I of the General Permit (using "fillable form" provided by MDE)]
- Impervious Area Restoration Work Plan, FY 2023 - Chesapeake Bay Restoration and Meeting Total Maximum Daily Loads
    - Appendix A includes Responses to MDE comments on the Year 4 MS4 Progress Report.
    - Appendix B includes MS Excel Urban BMP Database
    - Appendix C includes MS Excel Restoration Activity Schedule
    - Appendix D includes State and Federal Small MS4 Progress Report

If you have any questions, please do not hesitate to contact me at pmattejat@mdta.state.md.us.

Sincerely,

Peter Mattejat, P.E.
Environmental Manager
Office of Engineering and Construction
Maryland Transportation Authority

Enclosures:

MS4 Progress Report Fillable Form (Appendix D – State and Federal Small MS4 Progress Report)
FY23 Impervious Area Work Plan
Appendix A – MDE Comment Responses
Appendix B – Urban BMP Database
Appendix C – Restoration Activity Schedule

cc: Prakash Khanal, PE – MDTA
Jessica Seipp, PMP - consultant

Maryland Transportation Authority
Submission to

MARYLAND DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
GENERAL PERMIT FOR DISCHARGES FROM
STATE AND FEDERAL SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS

GENERAL DISCHARGE PERMIT NO. 13-SF-5501
GENERAL NPDES NO. MDR055501

Final Determination:	April 27, 2018
Effective Date:	October 31, 2018
Expiration Date:	October 30, 2023

This National Pollutant Discharge Elimination System (NPDES) general permit covers State and federal small municipal separate storm sewer systems (MS4s) in certain portions of the state of Maryland. MS4 owners and operators to be regulated under this general permit must submit a Notice of Intent (NOI) to Maryland Department of the Environment by October 31, 2018. An NOI serves as notification that the MS4 owner or operator intends to comply with the terms and conditions of this general permit.

APPENDIX D

State and Federal Small MS4 Progress Report

Maryland Department of the Environment (MDE)

National Pollutant Discharge Elimination System (NPDES)
Small Municipal Separate Storm Sewer Systems (MS4) General Permit

This Progress Report is required for those State and federal agencies covered under General Discharge Permit No. 13-SF-5501. Progress Reports must be submitted to:

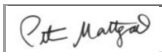
Maryland Department of the Environment, Water and Science Administration
Sediment, Stormwater, and Dam Safety Program
1800 Washington Boulevard, Suite 440, Baltimore, MD 21230-1708
Phone: 410-537-3543 FAX: 410-537-3553
Web Site: www.mde.maryland.gov

Contact Information

Permittee Name:	Maryland Transportation Authority
Responsible Personnel:	Peter Mattejat, Environmental Manager
Mailing Address:	Office of Engineering and Construction
	300 Authority Drive, Baltimore, MD 21222
Phone Number(s):	410-537-7874
Email address:	pmattejat@mdta.state.md.us
Additional Contact(s):	Prakash Khanal, PE Stormwater Remedial Lead
Mailing Address:	Office of Engineering & Construction-Envrionmental
Phone Number(s):	301-602-4143
Email address:	pkhanal@mdta.state.md.us

Signature of Responsible Personnel

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Peter Mattejat, P.E.		10/31/23
Printed Name	Signature	Date

Reporting Period (State Fiscal Year): FY2023 (7/2022 - 6/2023)

Due Date: 10/31/2023 **Date of Submission:** 10/31/2023

Type of Report Submitted:

Impervious Area Restoration Progress Report (Annual): ☑

Six Minimum Control Measures Progress (Years 2 and 4): ☐

Both: ☐

Permittee Information:

Renewal Permittee: ☑

New Permittee: ☐

Compliance with Reporting Requirements

Part VI of the Small MS4 General Discharge Permit (No. 13-SF-5501) specifies the reporting information that must be submitted to MDE to demonstrate compliance with permit conditions. The specific information required in this MS4 Progress Report includes:

1. Annual: Progress toward compliance with impervious area restoration requirements in accordance with Part V of the general permit. All requested information and supporting documentation must be submitted as specified in Section I of the Progress Report.
2. Years 2 and 4: Progress toward compliance with the six minimum control measures in accordance with Part IV of the general permit. All requested information and supporting documentation shall be reported as specified in Section II of the Progress Report. MDE may request more frequent reporting and/or a final report in year 5 if additional information is needed to demonstrate compliance with the permit.

Instructions for Completing Appendix D Reporting Forms

The reporting forms provided in Appendix D allow the user to electronically fill in answers to questions. Users may enter quantifiable information (e.g., number of outfalls inspected) in text boxes. When a more descriptive explanation is requested, the reporting forms will expand as the user types to allow as much information needed to fully answer the question. The permittee must indicate in the forms when attachments are included to provide sufficient information required in the MS4 Progress Report.

Section I: Impervious Area Restoration Reporting Form

Section I: Impervious Area Restoration Reporting

1. a. Was the impervious area baseline assessment submitted in year 1?
   ☑ Yes ☐ No

   b. If No, describe the status of completing the required information and provide a date at which all information required by MDE will be submitted:

   c. Has the baseline been adjusted since the previous reporting year?
   ☐ Yes ☑ No
2. Complete the information below based on the most recent data:

   Total impervious acres of area covered under this permit: 2,329.7

   Total impervious acres treated by stormwater water quality best management practices (BMPs): 501.3

   Total impervious acres treated by BMPs providing partial water quality treatment (multiply acres treated by percent of water quality provided):
   30.5

   Total impervious acres treated by nonstructural practices (i.e., rooftop disconnections, non-rooftop disconnections, or vegetated swales):
   0

   Total impervious acres untreated: 1,797.9

   Twenty percent of this total area (this is the restoration requirement):
   359.6

   Verify that all impervious area draining to BMPs with missing inspection records is not considered treated. Describe how this information was incorporated into the overall analysis:

*The Maryland Transportation Authority (MDTA) has a robust inspection and maintenance program that follows the MDTA **Stormwater Best Management Practices Field Inspection Manual (January 2017)** as the standard operating procedure (SOP). As part of the BMP inspection and maintenance program, each feature of the BMP is inspected, and an overall rating of A through E is given to the BMP. Ratings of A and B indicate that the BMP is functioning as designed. Ratings of C and D indicate that the BMP is operational but is a potential candidate for minor or major repair. A rating of E indicates that the BMP is not functional and has significant problems. Credits from BMPs with a rating of E are not included in the baseline assessment calculations. Once these BMPs are rehabilitated to function per their original design, the baseline assessment calculations will be revised to*

Section I: Impervious Area Restoration Reporting

include them. A last inspection date has been populated for all BMPs included in the Urban BMP Database, which is submitted along with this Progress Report.

3. Has an Impervious Area Restoration Work Plan been developed and submitted to MDE in accordance with Part V.B, Table 1 of the permit or other format?
   ☑ Yes ☐ No

   Has MDE approved the work plan?
   ☑ Yes ☐ No

   If the answer to either question is No, describe the status of submitting (or resubmitting) the work plan to MDE and provide a date at which all outstanding information will be available:

   Describe progress made toward restoration planning, design, and construction efforts and describe adaptive management strategies necessary to meet restoration requirements by the end of the permit term:

MDTA conductis the following activities to meet the restoration requirements of the permit:

- *Continuously evaluating water quality retrofit opportunities for impervious area without adequate existing water quality treatment, including developing assessment protocols.*
- *Constructing stormwater retrofits, such as bioswales and biofiltration BMPs within the grassed roadway medians and shoulders.*
- *Considering alternative innovative options that MDE is promoting including stream restoration, reforestation, outfall stabilization, and shoreline stabilization.*
- *Implementing street-sweeping as alternative urban BMP.*
- *Approximately 190.9 acres of equivalent impervious area credits were obtained from street-sweeping activities conducted over the past four years.*
- *Since January 1, 2006, MDTA has implemented BMPs as a part of redevelopment projects that treat 227.2 acres of impervious acres.*
- *MDTA has implemented enhancements to select BMPs. Approximately 4 acres of equivalent impervious area credits were obtained.*
- *Approximately 23.28 acres of equivalent impervious area credits were obtained from impervious area removal projects.*
- *Collaborating on partnerships with adjacent MS4 permit holders on cooperative Total Maximum Daily Load (TMDL) projects.*

Section I: Impervious Area Restoration Reporting

4. Has a Restoration Schedule been completed and submitted to MDE in accordance with Part V.B, Table 2 of the permit?
   ☑ Yes ☐ No

   In year 5, has a complete restoration schedule been submitted including a complete list of projects and implementation dates for all BMPs needed to meet the twenty percent restoration requirement?
   ☐ Yes ☐ No

   Are the projected implementation years for completion of all BMPs no later than 2025?
   ☑ Yes ☐ No

   Describe actions planned to provide a complete list of projects in order to achieve compliance by the end of the permit term:

MDTA has met its Chesapeake Bay Restoration requirements and continues to be proactive by planning for future stormwater management and alternative stormwater credits. The Restoration Activity Schedule in the attached Progress Report includes the list of projects implemented to meet the Chesapeake Bay Restoration requirements and the year of implementation.

   Describe the progress of restoration efforts (attach examples and photos of proposed or completed projects when available):

MDTA has met its Chesapeake Bay Restoration requirements through redevelopment projects, new stormwater retrofits, enhancement of existing BMPs, and alternative urban BMP projects. MDTA anticipates the new permit will include additional restoration requirements through 2030. Based on comments received from MDE, it is likely to be an additional 10% but goals are not final until the new permit is issued.

5. Has the BMP database been submitted to MDE in Microsoft Excel format in accordance with Appendix B, Tables B.1.a, b, and c?
   ☑ Yes ☐ No

   Is the database complete?
   ☑ Yes ☐ No

   If either answer is No, describe efforts underway to complete all data fields, and a date that MDE will receive the required information:

Section I: Impervious Area Restoration Reporting

6. Provide a summary of impervious area restoration activities planned for the next reporting cycle (attach additional information if necessary):

MDTA has met its Chesapeake Bay Restoration requirements; but continues to evaluate and identify additional projects to improve the water quality. Currently, MDTA is evaluating several new BMP and BMP retrofit projects to treat additional untreated impervious area.

7. Describe coordination efforts with other agencies regarding the implementation of impervious area restoration activities:

MDTA has agreements to implement joint projects with Anne Arundel and Cecil Counties. MDTA also considers collaboration with other units of the Maryland Department of the Transportation (MDOT)

8. List the total cost of developing and implementing impervious area restoration program during the permit term:

MDTA expects to spend over $10,000,000 implementing the impervious area restoration plan over the course of the permit term.

Maryland Transportation Authority

IMPERVIOUS AREA RESTORATION WORK PLAN FY 2023

Chesapeake Bay Restoration and Meeting Total Maximum Daily Loads

October 31, 2023 submittal

National Pollutant Discharge Elimination System General Permit for Discharges from State and Federal Municipal Separate Storm Sewer Systems Permit Number 13-SF-5501

SUBMITTED TO:
Maryland Department of the Environment
Water and Science Administration
Program Review
1800 Washington Boulevard
Baltimore, Maryland 21230

SUBMITTED BY:
Maryland Transportation Authority
Office of Engineering and Construction
Environmental Division
300 Authority Drive
Baltimore, Maryland 21222

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(Digital Submission in MS Excel Format)

IMPERVIOUS AREA RESTORATION WORK PLAN – FY 2023

Chesapeake Bay Restoration and Meeting Total Maximum Daily Loads

October 2023

Maryland Department of the Environment (MDE)
Water and Science Administration (WSA)

National Pollutant Discharge Elimination System (NPDES)
General Permit for Discharges from Small Municipal Separate Storm Sewer Systems (MS4)

This annual reporting form is intended for those agencies covered under General Discharge Permit No. 13-SF-5501. Submitting this report constitutes notice that the entity identified below is making progress to comply with all terms and conditions of the General Permit.

MDE Contact:

Ms. Deborah Cappuccitti
Maryland Department of Transportation
Maryland Department of the Environment
Water and Science Administration

1800 Washington Boulevard Baltimore, Maryland 21230

Phone: 410-537-3543
Fax: 410-537-3553

Web: www.mde.state.md.us

MDTA Contact:

Maryland Transportation Authority (MDTA)
Office of Engineering and Construction

300 Authority Drive, Baltimore, MD 21222-2200

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Phone: 410-537-7874, 410-537-7857
Fax: 410-537-7801

ACRONYMS AND ABBREVIATIONS

BHT	Baltimore Harbor Tunnel
BMP	best management practice
ESD	environmental site design
ETL	express toll lanes
FMT	Fort McHenry Tunnel
FSK	Francis Scott Key Bridge
FY	fiscal year
GIS	geographic information system
HWN	Harry W. Nice Memorial Bridge
ICC	Intercounty Connector
JFK	John F. Kennedy Memorial Highway
MCM	minimum control measure
MD	Maryland
MDE	Maryland Department of the Environment
MDTA	Maryland Transportation Authority
MEP	maximum extent practicable
MS4	Municipal Separate Storm Sewer System(s)
NPDES	National Pollutant Discharge Elimination System
TJH	Thomas J. Hatem Bridge
TMDL	Total Maximum Daily Load
WO	work order
WPL	William Preston Lane Jr. Memorial (Bay) Bridge

1 Introduction

The Maryland Transportation Authority (MDTA) has maintained coverage of its properties since September 8, 2005 under the *National Pollutant Discharge Elimination System (NPDES) General Permit for Discharges from State and Federal Small Municipal Separate Storm Sewer Systems (MS4)* issued by the Maryland Department of the Environment (MDE). The goal of the NPDES MS4 Phase II Permit is to control and improve the quality of stormwater discharged from state and federal properties covered under the General Permit by requiring permittees to comply with the six minimum control measures (MCM). The first-generation permit was administratively extended after its expiration date on November 12, 2009. The NPDES MS4 Phase II Permit was renewed and updated by MDE and became effective on October 31, 2018. This permit incorporates the Chesapeake Bay Total Maximum Daily Load (TMDL) requirements for nutrients and sediment issued by the United States Environmental Protection Agency (EPA). The permit requires treatment of 20 percent of the untreated impervious area as of a permittee-established baseline year using MDE-approved best management practices (BMPs) with implementation by 2025. This report presents MDTA's analysis demonstrating compliance with the Chesapeake Bay TMDL.

Properties covered by MDTA's permit include MDTA toll roadways and their crossings, as well as their related campuses and maintenance facilities. The roadways covered under the permit are: I-95 of John F. Kennedy Memorial Highway (JFK); US 40 at the Thomas J. Hatem Memorial Bridge (TJH); I-95 and I-395 by the Fort McHenry Tunnel (FMT); I-895 at the Baltimore Harbor Tunnel (BHT) Throughway; I-695 at the Francis Scott Key Bridge (FSK); US 50/301 at the William Preston Lane Jr. Memorial (Bay) Bridge (WPL); US 301 at the Harry W. Nice Memorial Bridge (HWN); and the Intercounty Connector (ICC) / MD 200.

Figure 1 shows the location of MDTA toll roadways and crossings, followed by brief descriptions of each.

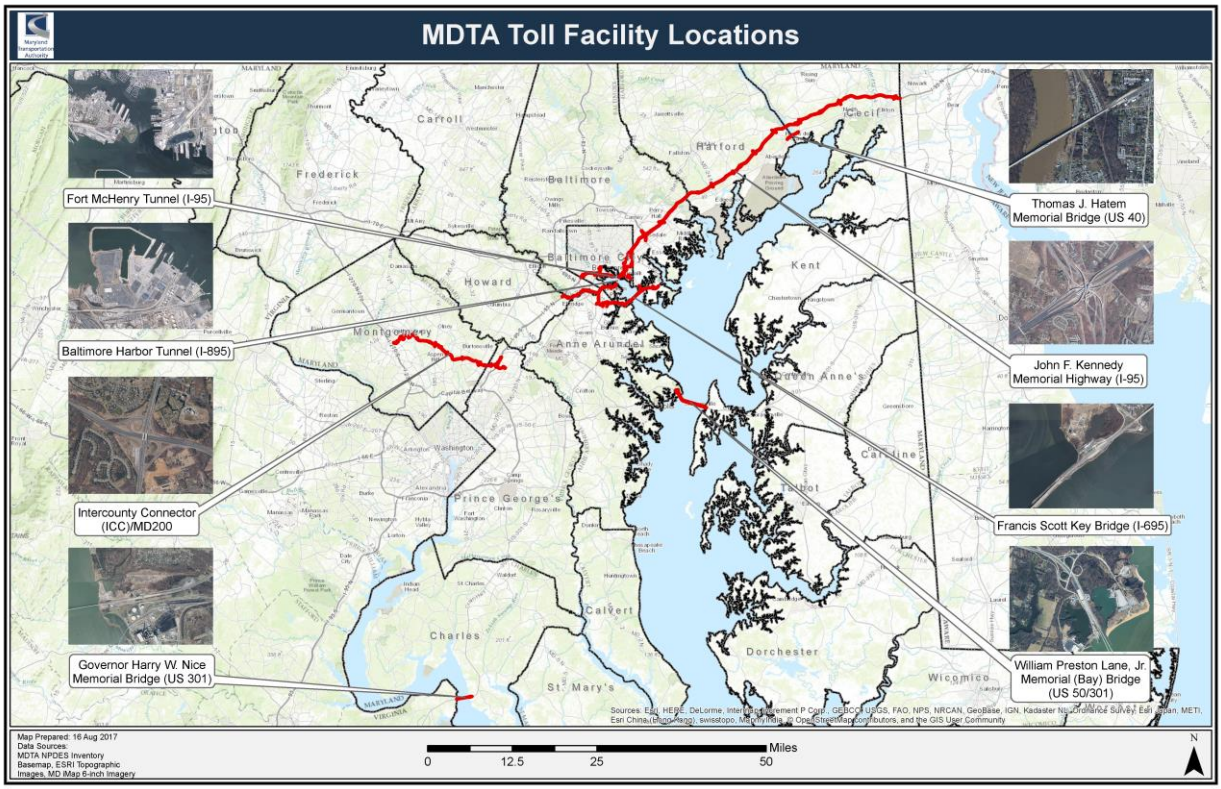

Figure 1: MDTA Toll Roadways

1.A I-95 John F. Kennedy (JFK) Memorial Highway

JFK Highway, which opened in 1963, is a 50-mile section of I-95 extending from the Baltimore city line to the Delaware state line. To the north of the MD 24 interchange, the roadway is six lanes wide with two travel plazas in the median. Tolls are collected electronically only in the northbound direction.

South of the MD 24 interchange, the roadway is eight lanes wide, except for a 9-mile section along the mainline of I-95 from the intersection with I-895 to north of the MD 43 interchange, where the Section 100 Express Toll Lanes (ETL) megaproject added extra lanes. This roadway section and the related I-695 interchange were widened to include the ETL. Tolls for the ETL lanes are collected automatically at highway speeds. There are additional ongoing roadway enhancement design projects. ETL lanes will be extended from north of MD 43 to north of MD 24 with some sections opening as early as 2023. ETL lanes are being constructed to meet current MDE stormwater regulations. New and/or retrofitted BMPs will be added to MDTA's urban BMP database. JFK Highway includes two maintenance facilities located in Bel Air, MD, and Elkton, MD.

1.B US 40 at Thomas J. Hatem (TJH) Memorial Bridge

The TJH Bridge spans the Susquehanna River on US 40 and is approximately one mile long. This four-lane bridge, which opened in 1940, includes one mile of roadway approaching either

side of the bridge and an electronic toll plaza in the eastbound direction. The bridge includes one maintenance facility, located in Perryville, MD.

1.C I-95 / I-395 at Fort McHenry Tunnel (FMT)

The FMT is a 1.5-mile section of I-95 below the Patapsco River, immediately south of JFK. Opened in 1985, it is an eight-lane roadway with more than 11 miles of roadway and elevated structures along I-95 and I-395 through Baltimore City. There is also an electronic toll plaza servicing both directions. The FMT includes one maintenance facility in Baltimore, MD.

1.D I-895 Baltimore Harbor Tunnel (BHT) Throughway

BHT is a 1.4-mile section of I-895 below the Patapsco River, opened in 1957. The BHT Throughway is a four-lane-wide roadway with more than 20 miles of roadway and elevated structures, and an electronic toll plaza in both directions. The BHT has one maintenance facility in Baltimore, MD.

1.E I-695 at Francis Scott Key (FSK) Bridge

The FSK Bridge is a 1.8-mile section of I-695 spanning the Patapsco River. Opened in March 1977, FSK is a four-lane-wide roadway with more than 10 miles of roadways, elevated structures, and bridges, and there is an electronic toll plaza servicing both directions. FSK includes one maintenance facility in Baltimore, MD.

1.F US-50 / US-301 at William Preston Lane Jr. (WPL) Memorial Bridge

The WPL Bridge, also known as the Bay Bridge, is a 4.3-mile section of US 50 that spans the Chesapeake Bay. The eastbound bridge opened in 1952 and is two lanes wide; the westbound bridge opened in 1973 and is three lanes wide. The facility includes more than 1 mile of roadway approaching either side of the bridge. The WPL includes one maintenance facility in Annapolis, MD.

1.G US-301 at Governor Harry W. Nice (HWN) Memorial Bridge

The HWN Memorial Bridge is a 1.7-mile section of US 301 that spans the Potomac River. Opened in 1940, HWN is a two-lane-wide roadway with 2.4 miles of four-lane roadway approaching either side of the bridge, and an electronic toll plaza in the southbound direction. HWN includes one maintenance facility in Newburg, MD.

A new four-lane bridge opened in early 2023, with some of the roadway area still under construction. All construction meets current MDE stormwater management regulations. As BMPs constructed and as-built acceptance letters are received, they are added to the urban BMP database for tracking.

1.H MD 200 Intercounty Connector (ICC)

The ICC is an 18.8-mile, east-west highway that links the corridors of I-270 and I-95 / US 1. The six-lane-wide roadway opened in 2011 and was completed in 2015. This state-of-the-art, multimodal highway has an unprecedented integration of stormwater management and environmental restoration projects (e.g., stream restoration, fish passages, wetlands). Tolls for the ICC are collected electronically. The ICC includes two maintenance facilities in Laurel, MD, and Derwood, MD.

1.I Campuses and Maintenance Facilities

The NPDES MS4 Phase II Permit covers campuses affiliated with MDTA operations and the E-ZPass customer service centers. The operations campuses include office buildings for administration, finance, human resources, and engineering-related operations along with their associated parking lots. The MDTA operations campuses are located at FSK and Point Breeze in Baltimore. The E-ZPass customer centers are located adjacent to the BHT, TJH, JFK, WPL, FMT, and HWN roadways.

There are 11 maintenance facilities, which are located along the MDTA roadways where maintenance activities occur (e.g., garages, storage bins, salt barns, vehicle maintenance). These maintenance facilities are regulated under the General Permit for Stormwater Associated with Industrial Activities (Permit 12-SW until 2023 and now covered under Permit 20-SW). The impervious areas at the maintenance facilities and campuses are included as a part of the MS4 impervious area estimates for compliance with the Chesapeake Bay Restoration requirements.

2 MS4 Progress Report Requirements

As required by the NPDES MS4 Phase II Permit, MDTA submits an annual MS4 Progress Report. This annual Progress Report includes updates on impervious area restoration activities since the FY 2022 submission. Within the Progress Report, MDTA presents MDTA's Impervious Area Restoration Work Plan to meet the Chesapeake Bay Restoration TMDL requirements. The Work Plan includes:

- An impervious area baseline assessment identifying:
  - Total impervious area covered under the MS4 Phase II Permit
  - Total impervious area treated by stormwater quality BMPs
  - Total impervious area treated by BMPs providing partial water quality treatment
  - Total impervious area treated by nonstructural practices (e.g., rooftop disconnections, non-rooftop disconnections)
  - Verification that any impervious area draining to BMPs with missing inspection records is not considered treated
  - The required 20 percent treatment goal

    - Activities and milestones performed over the permit term to meet the 20 percent treatment requirements (Restoration Activity Schedule)
- Funding needs for proposed stormwater projects and the long-term budget.
- Any opportunities identified to develop partnerships with other NPDES permittees

This report has been updated to address comments from MDE on MDTA's fourth Annual Progress Report submission in October 2022. Point-by-point responses to these comments are provided as a part of the FY 2023 MS4 Progress Report, in **Appendix A**. This analysis was conducted considering the combined requirements of all MDTA facilities as they are covered under the same NPDES permit per the Notice of Intent filed by MDTA in October 2018.

3 Impervious Area Restoration Work Plan

3.A Impervious Baseline Assessment

To meet the Chesapeake Bay Restoration requirements, the baseline year for the impervious area assessment, according to MDE guidance, is recommended to be 2002 because that is the year the MDE *Stormwater Management Design Manual* was fully implemented. BMPs implemented after 2002 are typically designed according to the current MDE regulations. However, MDTA's analysis was conducted using 2018 as the baseline year of assessment because that is the year of the best available aerial imagery and land use data for all MDTA facilities, to establish the baseline impervious cover.

Based on the 2018 data, MDTA's (roadways, campuses, and maintenance facilities) impervious area is estimated to be **2,329.7 acres**.

3.B Stormwater Management

As a part of the impervious baseline assessment, stormwater management provided by BMPs implemented prior to the baseline year was determined. MDTA has 667 active BMPs, such as stormwater ponds, sand filters, grass swales, infiltration trenches, open channels, and bioretention facilities. Environmental site design (ESD) practices include micro-bioretention facilities, rain gardens, modified bioswales, and permeable pavement. Some of these BMPs were implemented prior to 2002 and therefore only provide partial water quality treatment. Certain BMP types implemented prior to 2002, such as dry pond and dry extended detention structures, provide no water quality treatment per MDE guidelines. Some of these were or planned for enhancement to current standards. BMPs constructed after 2002 follow current MDE stormwater management guidelines and provide water quality treatment to the maximum extent practicable. Disconnections of rooftop and non-rooftop runoff were not evaluated for MDTA facilities, and therefore are not included in the baseline assessment calculations.

3.B.1 Analysis of Existing Documentation

The structural BMPs and ESD practices within MDTA right-of-way are part of MDTA's stormwater asset management program. This includes inventory information such as design plans, stormwater management reports, and stormwater as-builts. In addition, the program tracks inspections and remedial actions. MDTA also tracks year of implementation, degree of water quality treatment, and the associated impervious area treatment provided for each practice.

BMPs data includes the year of implementation, water quality treatment volume, and associated impervious area treatment provided. The treated impervious area credits assigned to each BMP depend on the type of BMP and the extent of water quality treatment provided. The year of construction was also used as a reference to evaluate the water quality treatment that should be provided by the BMP. For example, MDE required water quality BMPs built between 1985 and 2002 to treat the stormwater runoff from 0.5 inch of rainfall, which is half the current stormwater management standard of 1 inch.

The BMP records also determined if the BMP was originally built to meet MDE's stormwater management requirements for new development/redevelopment or if the BMP was enhanced to provide additional water quality treatment. Per the guidelines in the General Permit, impervious area treated by BMPs enhanced or implemented for redevelopment projects after January 1, 2006, until the permit effective date can be counted toward Chesapeake Bay Restoration goals. Therefore, MDTA used the documented BMP type combined with the year of implementation and the construction purpose to determine if the impervious area treatment credits should be included in the baseline assessment or toward meeting the Chesapeake Bay Restoration treatment goals.

Detailed information on existing structural BMPs, including BMP ID, type, treatment area, rainfall treatment depth, and impervious area treatment credits, is in the existing Urban BMP Database. The database, which was developed according to MDE requirements and submitted along with the annual MS4 Progress Report for MDE review, is provided in **Appendix B**.

Structural BMPs and ESD practices implemented until the baseline year, treat a total of 531.8 acres of impervious area. This includes treatment credits from BMPs providing full and partial water quality volume treatment. **Table 1** is a summary of the drainage area and equivalent impervious area treated by structural BMPs and ESD practices included in the baseline assessment.

Table 1: Credits from BMPs at MDTA Properties Included in the Baseline

Property	Structural or ESD	Drainage Area (acres)	Equivalent Treated Impervious Area (acres)
I-95 John F. Kennedy Memorial Highway (JFK)	Structural Practices	224.35	43.58
	ESD	-	-
US40 Thomas J. Hatem Memorial Bridge	Structural Practices	0.15	0.04
	ESD	-	-
i-95 Fort McHenry Tunnel	Structural Practices	-	-
	ESD	-	-
I-895 Baltimore Harbor Tunnel	Structural Practices	-	-
	ESD	-	-
I-695 Francis Scott Key Bridge	Structural Practices	23.82	4.58
	ESD	0.86	0.68
US50 William Preston Lane Jr. Memorial Bridge	Structural Practices	7.21	2.86
	ESD	1.02	.57
US8301 Harry W. Nice Memorial Bridge	Structural Practices	-	-
	ESD	-	-
Point Breeze Campus	Structural Practices	0.7	0.47
	ESD	-	-
MD200 - Intercounty Connector	Structural Practices	977.7	303.5
	ESD	-	-
I-95 JFK Express Toll Lanes (ETL)	Structural Practices	391.4	175.5
	ESD	-	-
	Total	1,627.21	531.78

3.B.2 As-Built Approval Letters

MDTA has copies of stormwater as-built acceptance letters (as required) for BMPs tracked in the urban BMP database. MDTA will continue to track as-built acceptance for future BMPs added to the database. As new projects are completed to various stages, MDTA will submit data to MDE.

3.B.3 Inspections and Maintenance

MDE guidelines state that only BMPs that are functioning as designed earn treatment credit. MDTA has a robust inspection and remediation program that follows the MDTA *Stormwater Best Management Practices Field Inspection Manual (January 2017)* as the standard operating procedure. Each feature of a BMP is inspected and scored, and an overall rating is assigned to the BMP.

- Ratings of A and B indicate that the BMP is functioning as designed.
- Ratings of C and D indicate that the BMP is operational but is a potential candidate for minor or major repair.
- A rating of E indicates that the BMP is not functional and may have significant problems. MDTA does not currently have any BMPs with an E rating.

BMPs that receive a grade other than A or B are assigned for remediation under either as a work order (WO) for MDTA maintenance crews, Maryland Environmental Services (MES), or MDTA on-call contractors. The inspection date and the rating are tracked to ensure that the WO is implemented within the 3-year inspection cycle. If a BMP were to remain in failing condition past the next reporting cycle, MDTA would remove the impervious area treatment credit of that BMP from the database until the BMP is brought into working order. Inspections and maintenance dates have been updated in the Urban BMP Database to reflect work conducted in FY 2023.

BMP inspections and remediation are factored into MDTA's annual operating budget to promote BMPs remain functional and not compromised. MDTA's BMP Inspection Manual ensures that inspections are conducted methodically and effectively, such that long-term BMP maintenance costs are not excessive. Long-term costs are based upon estimated staff-hours and hourly rates required to maintain and restore different categories of BMPs, projected across a 10-year maintenance cycle and accounting for inflation.

4 Chesapeake Bay Restoration Goal

The Chesapeake Bay Restoration requirements mandate restoration of 20% of untreated impervious areas identified in the baseline assessment. As described in Section 3.A, the baseline impervious cover at all MDTA facilities is 2,329.7 acres. Approximately 531.8 acres of baseline impervious area are treated by BMPs providing full and partial water quality treatment, as shown in **Table 1** above. **Table 2** below shows the impervious restoration target, calculated as 20 percent of the untreated baseline impervious area. The calculations in **Table 2** do not include the impervious area treatment provided by BMPs implemented for redevelopment and restoration projects between January 1, 2006, and the present because these credits will be applied toward the Chesapeake Bay Restoration goal.

Table 2: Chesapeake Bay Restoration Goal

	Description	Impervious Area (acres)
A	Baseline Impervious Cover	2,329.7
B	Total impervious area treated by BMPs providing full water quality treatment at baseline year	501.3
C	Total impervious area treated by BMPs providing partial water quality treatment at baseline year	30.5

	Description	Impervious Area (acres)
D = B + C	Treated impervious area	531.8
F = A – D	Existing untreated impervious area	1797.9
G = 20%*F	**20% GOAL (acres)**	**359.6**

BMPs = best management practices

5 Chesapeake Bay Restoration Credits

Although not required by the previous NPDES MS4 Phase II General Permit and the Industrial Stormwater General permit, since 2010 MDTA has progressively developed an approach to meet the Chesapeake Bay TMDL requirements. Prior to the inclusion of TMDL objectives, MDTA refined the stormwater program to account for a rapid expansion of stormwater management due to the mega-projects of ICC and the I-95 Section 100 ETL, as well as other development projects. Since the issuance of the Chesapeake Bay TMDL, MDTA's stormwater program was enhanced to address Chesapeake Bay TMDL requirements. A key update was the implementation of a MDTA-wide tracking system for impervious area treatment on a watershed basis for tributaries of the Chesapeake Bay.

Key MDTA activities to meet the TMDL requirements include:

- Continuously evaluating water quality retrofit opportunities, which includes developing and improving assessment protocols.
- Constructing new stormwater retrofits such as bioswales and biofiltration BMPs within grassed roadway medians and shoulders.
- Calculating alternative retrofits such as the impervious area treatment equivalents for street-sweeping activities and pavement removal.
- Considering innovative options such as stream restoration, reforestation, outfall stabilization, and shoreline stabilization.
- Promoting partnerships with adjacent MS4 permit holders on cooperative TMDL projects.

The types of projects that MDTA is currently undertaking to meet its Chesapeake Bay Restoration requirements are described below.

5.A Redevelopment Projects

MDTA has implemented several redevelopment projects since January 1, 2006, and the impervious area treated by BMPs implemented for these projects can be applied toward MDTA's Chesapeake Bay Restoration goal of 359.6 acres. Based on review of as-built plans and stormwater management plans for redevelopment projects, redevelopment BMPs provide approximately 227.2 acres of treatment credits toward the Chesapeake Bay Restoration

requirements. Several new redevelopment projects with eight water quality BMPs were completed in FYs 2022 and 2023.

5.B Stormwater Retrofit Projects

MDTA is also developing a water quality strategy to provide a framework for identifying viable and cost-effective stormwater retrofits that address TMDL requirements along MDTA roadways and facilities. Since January 1, 2006, several retrofit projects were implemented along JFK, BHT, and FSK, including biofiltration practices and modified bioswales. These practices treat 4.0 acres of impervious area and can be counted toward the Chesapeake Bay Restoration requirements.

5.C Alternative Urban BMPs

In addition to structural BMPs and ESD practices, MDE-approved alternative urban BMPs are important tools for achieving the impervious area treatment requirements. Alternative urban strategies include practices such as street sweeping, catch basin cleaning, reforestation of pervious areas, and conversion of impervious areas to pervious or forest areas. These strategies are approved by MDE and are included in the MDE guidance document *Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated (August 2014)*. MDTA has adopted several alternative urban BMPs, including street sweeping, reforestation, and conversion of impervious urban cover to pervious area.

MDTA conducts street sweeping and inlet cleaning throughout its right-of-way for system preservation and as a good housekeeping measure. According to MDE's guidance document, *Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated (August 2014)*, street sweeping removes sediment and pollutants from paved areas and can therefore be converted into impervious area treatment credit toward the TMDL goals, provided that sweeping activities meet specific criteria. These criteria include sweeping at least twice per month. Although every MDTA facility performs street sweeping, not all facilities sweep at least twice per month. The summary below only counts treatment credit for the facilities that meet the required criteria. Because this alternative urban BMP is credited at the end of the permit term as an average of credit earned over 5 years, the credit reported is 190.9 acres.

In addition to street sweeping, MDTA has removed approximately 31.05 acres of impervious area since 2006, providing 23.3 acres of impervious restoration credits that can be applied toward the NPDES requirements.

Table 3 includes the street-sweeping credits for FY 2019 through FY 2023 for facilities that meet MDE's street-sweeping criteria. MDTA's street-sweeping program has assisted MDTA in meeting the 20 percent treatment requirement ahead of schedule.

Because this alternative urban BMP is credited at the end of the permit term as an average of credit earned over 5 years, the credit reported is 190.9 acres.

In addition to street sweeping, MDTA has removed approximately 31.05 acres of impervious area since 2006, providing 23.3 acres of impervious restoration credits that can be applied toward the NPDES requirements.

Table 3: TMDL Credit for Street Sweeping for Fiscal Years 2019 through 2023

Facility	Schedule	Weight of Material Collected (tons)	Equivalent Impervious Area Credits (acres)
FY 2019			
JFK1	2X/Month	303.5	80.8
BHT	2X/Month	493.6	138.2
ICC	Every Day	125.9	35.3
Total		**923.0**	**254.3**
FY 2020			
JFK1	2X/Month	290.3	81.3
FMT	3-4X/Month	223.1	62.5
Total		**513.4**	**143.8**
FY 2021			
JFK1	3-4X/Month	76.3	21.4
FMT	3X/Month	309.8	86.8
ICC	3X/Month	200.7	56.2
Total		**586.8**	**164.3**
FY 2022			
JFK1	3-4X/Month	212.8	59.6
FMT	3X/Month	317.2	88.8
ICC	3X/Month	118.2	33.1
Total		**648.1**	**181.5**
FY 2023			
JFK1	3-4X/Month	156.9	43.9
FMT	3X/Month	414.6	116.1
ICC	3X/Month	181.0	50.7
Total		**752.5**	**210.7**
Average for Reporting Period		**684.8**	**190.9**

5.D Total Chesapeake Bay Restoration Credits

As noted above, MDTA must treat 359.6 acres of impervious area to meet the Chesapeake Bay Restoration requirements of the NPDES MS4 Phase II Permit. Based on the analysis presented above, MDTA has exceeded the treatment requirements through credits obtained from redevelopment and BMP retrofit projects implemented since January 1, 2006, and alternative urban BMPs. **Table 4** is a summary of MDTA's compliance with the permit's Chesapeake Bay restoration requirements.

Table 4: Chesapeake Bay Restoration Requirements Compliance Summary

	Description	Impervious Area (acres)
A	Credits needed	359.6
B	Credits from redevelopment projects	227.2
C	Credits from BMP retrofit projects	4.0
D	Credits from street sweeping activities	190.9
E	Credits from impervious area removal	23.3
F = A-(B+C+D+E)	**Credits Needed**	**-85.8**

6 Chesapeake Bay Restoration Activity Schedule

The NPDES MS4 Phase II Permit requires a Restoration Activity Schedule that includes BMPs implemented and planned to meet the Chesapeake Bay Restoration requirements. This schedule also includes additional water quality projects planned by MDTA if additional treatment needs are identified based on future revisions to the Chesapeake Bay Restoration treatment goals calculations. The Restoration Activity Schedule is provided in **Appendix C**. MDTA has already met its 2025 TMDL requirement, although opportunities to further improve water quality continue to be identified. BMPs installed prior to 2002 were evaluated to determine their equivalent P_E treatment and impervious area treated, and those BMPs that could potentially be enhanced for improved water quality were identified during these evaluations.

7 Anticipated Restoration Through 2030

The comments provided by MDE on the FY22 Annual Report and in an email sent October 5, 2023, requests that MDTA begin to plan for continued Bay TMDL restoration through 2030 for an additional 10% of the baseline. MDTA acknowledges additional restoration will likely be required as part of next MS4 permit. MDTA will coordinate with MDE during negotiations for the next permit to establish reasonable and achievable restoration goals. MDTA is already beginning to plan for added restoration.

Key activities MDTA intends to implement to meet the anticipated restoration requirements include:

- Continued implementation of annual practices including street sweeping and inlet cleaning.
- Continuously evaluating water quality opportunities associated with roadway projects.
- Constructing new stormwater retrofits such as bioswales and biofiltration BMPs within grassed roadway medians and shoulders.
- Considering innovative options such as stream restoration, reforestation, outfall stabilization, and shoreline stabilization.

- Promoting partnerships with adjacent MS4 permit holders on cooperative TMDL projects.

8 Conclusion

MDTA has met the 2025 Chesapeake Bay Restoration goals and continues to be proactive by planning for future stormwater management and alternative BMPs. Ongoing stormwater program activities provide additional support for permit compliance. MDTA anticipates the restoration requirements in the next permit will require treatment of an additional 10% of untreated impervious area, per MDE's comments. MDTA understands that the additional restoration goals are not final until the permit is renewed.

In addition to conducting internal compliance activities, MDTA will continue to pursue new partnerships and expand existing partnerships with entities such as adjacent MS4 permit holders and other Transportation Business Units to improve implementation of TMDL methods and opportunities. Through coordination, MDTA will share information on latest technologies, grant opportunities, and educational/engagement tactics. By strengthening partnerships, MDTA can continue to enhance the water quality of the Chesapeake Bay while managing long-term costs and efforts.

NPDES General Permit for State and Federal Small MS4s – General Discharge Permit No. 13-SF-5501 expires October 31, 2023. Per email from MDE (dated 10/05/2023), the permit will be administratively extended (under 40 CFR Section 122.6) and all permit conditions remain in effect. MDTA will continue to comply with permit conditions and will submit annual progress reports on October 31st of each year.

Appendix A: Responses to MDE Comments on FY 2022 Progress Report

Maryland Transportation Authority

Maryland Transportation Authority (MDTA)

October 31, 2023 Submittal

Response to Maryland Department of Environment (MDE) Comments on Fiscal Year 2022 Progress Report
for
National Pollutant Discharge Elimination System (NPDES) General Permit 13-SF-5501 for Discharges from State and Federal Small Municipal Separate Storm Sewer Systems (MS4)

SUBMITTED TO:
Maryland Department of the Environment
Water and Science Administration
Program Review
1800 Washington Boulevard
Baltimore, Maryland 21230

SUBMITTED BY:
Maryland Department of Transportation
Maryland Transportation Authority
Office of Engineering and Construction
Environmental Division
300 Authority Drive
Baltimore, Maryland 21222

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1 Introduction

The National Pollutant Discharge (NPDES) General Permit for Discharges from State and Federal Small Municipal Separate Storm Sewer Systems (MS4), Permit No.13-SF-5501 (General Permit), was reissued to the Maryland Transportation Authority (MDTA) on October 31, 2018. MDTA properties covered under this permit are the Baltimore Harbor Tunnel, Fort McHenry Tunnel, Francis Scott Key Bridge, Intercounty Connector, John F. Kennedy Memorial Highway, William Preston Lane Jr. Memorial (Bay) Bridge, Harry W. Nice Memorial Bridge, and Thomas J. Hatem Memorial Bridge facilities. MDTA submitted its report for fiscal year (FY) 2022, the fourth year of the permit term, to the Maryland Department of the Environment (MDE) in October 2022. This submission included the Impervious Area Restoration Form and Work Plan, which discussed MDTA's plans to meet the Chesapeake Bay Restoration and Total Maximum Daily Load (TMDL) requirements set forth by the permit through new stormwater management projects, as well as the six Minimum Control Measures (MCM) requirements. MDE provided comments to MDTA on March 17, 2023, regarding their fourth annual report submission. MDE comments were organized by topic area and are provided below. MDTA's responses are shown in italics following the MDE comments.

2 Reporting

MDE Comment 1:

Maryland Department of Transportation - Maryland Transportation Authority (MDTA) submitted a complete Progress Report Form, responses to the prior year's review, a signature for the appropriate responsible personnel, and contact information. This information is required to be updated annually.

MDTA Response:
MDTA acknowledges MDE's comment.

MDE Comment 2:

The next Progress Report is due October 31, 2023 and must include Sections I of the Progress Report, updates to the impervious area restoration program, and responses to all comments outlined below.

MDTA Response:
MDTA's FY 2023 MS4 Progress Report includes updates to the impervious area restoration progress section. This submission also includes the reporting forms and attachments, which provide details on impervious area reporting.

3 Section I: Impervious Area Restoration Reporting

MDE Comment 3:

MDTA's restoration target is 360 acres. MDTA implemented projects to restore 423 acres through redevelopment, retrofit projects, impervious area removal, and street sweeping.

MDTA Response:

MDTA acknowledges MDE's comment.

MDE Comment 4:

MDTA provided an updated Work Plan that included strategies for developing as-built plans and best management practice (BMP) verification, long term implementation and funding for maintenance and inspection of BMPs, and evaluation of water quality retrofit opportunities. An updated Work Plan must be submitted annually.

MDTA Response:

MDTA included an updated Work Plan with the FY 2023 Progress Report submission.

MDE Comment 5:

MDTA provided an updated Restoration Activity Schedule (RAS). The RAS includes completed BMPs that exceed the 20% restoration target and projects under construction that may treat an additional 18 impervious acres. The Department provides the following comments:

a. The Department requests that the costs be included in the RAS for each BMP completed during the permit term.
b. The Department requests that MDTA continue to plan for restoration implementation beyond 2025. An updated RAS submitted in the FY 2023 Progress Report should provide an estimate of impervious area restoration implementation through 2030. The Department recommends that MDTA plan for additional restoration equivalent to 10% of the current baseline by 2030. This information will help to inform future permit requirements.

MDTA Response:

a. *Most of the projects that have been implemented to meet MDTA's restoration requirements have been part of redevelopment projects as opposed to standalone restoration projects. MDTA has developed typical construction costs by BMP type which have been included in the FY23 RAS.*

b. *MDTA will work with MDE during permit renewal negotiations to establish reasonable and achievable restoration goals.*

MDE Comment 6:

MDTA provided an updated urban BMP database. The Department provides the following comments:

a. On March 15, 2023, MDTA and the Department met to discuss documentation of MDTA's BMP inspections and maintenance program. MDTA performs major inspections triennially and has reported them in the BMP database as both the last inspection date and maintenance date. Maintenance has been defined as remedial actions taken resulting from those inspections. MDTA is required to conduct seasonal and annual maintenance per the approved stormwater management plans. MDTA stated that operations staff maintain the BMPs throughout the year as part of standard operations, which is reflected in MDTA's submitted BMP maintenance manual. MDTA will update the BMP database to reflect preventative maintenance activities. The maintenance dates must be within the reporting year for all BMPs. In addition, MDTA will incorporate schedules of maintenance activities in annual staff training.

b. MDTA reported six failing BMPs in the database. Until those BMPs are brought into passing condition, the PE addressed should be 0.

c. MDTA must continue to update the BMP database as additional as-built information is collected and new BMPs are completed.

MDTA Response:

a. In the March 15th discussion with MDE, MDTA described our robust stormwater remediation program which includes conducting routine and triennial inspections of BMPs to monitor their performance and stability. The inspections confirm that preventative maintenance is performed and if any additional remedial actions are required. The BMP database is updated to reflect preventative maintenance activities and inspections that include ratings of individual parameters and overall rating.

b. MDTA acknowledges this comment and has kept the PE at 0 until those BMP are brought into passing condition.

c. MDTA will continue to update the BMP database as needed.

4 Minimum Control Measure (MCM) #1: Public or Personnel Education and Outreach

MDE Comment 7:

MDTA provided information to comply with minimum control measure (MCM) #1 requirements. MDTA continued to maintain a process for receiving and responding to stormwater related complaints and to provide training for staff related to stormwater pollution prevention, environmental briefings for managers, illicit discharge detection and elimination, good housekeeping, and BMP maintenance. MDTA submitted training presentations and examples of distributed materials. MDTA must continue to implement this program and provide an update on progress in the FY 2024 Progress Report.

MDTA Response:
MDTA will continue to implement this program.

MDE Comment 8:

MDTA reported investigating a complaint regarding high chloride concentrations in a well that MDTA determined was a result of road salt from I-95, the weigh station, stormwater management pond, and salt barn. MDTA sent the report to Maryland's State Treasurer's office for further action but will not oversee the resolution because it is a groundwater complaint. However, salt management is an integral part of MDTA's good housekeeping plan required under MCM #6. The Department requests information in the FY 2023 Progress Report on best practices MDTA is using to minimize salt runoff from the MDTA-maintained surfaces at this location.

MDTA Response:
MDTA continues to implement roadway best management practices to optimize salt/brining application and storage, while maintaining safe roadways. Practices include:

- *Follow 2012 Statewide Salt Management Plan and Standard Operating Procedures*
- *Track salt usage and snow / ice removal efforts, plus severity of winter weather to help correlate salt use and salt damage*
- *Implement and improve material storage and handling procedures:*
    - *Salt is stored in salt barns/domes/other permanent structures and use straw bales, aggregates or some other type of structure are placed across the storage structures to reduce leaching during non-application periods.*
    - *Salt and brine storage structures are inspected during quarterly and annual site inspections implemented as part of MDTA's Good Housekeeping practices and Stormwater Pollution Prevention Plans as part of the Stormwater Industrial General Permit 20-SW.*
    - *Unused material is swept into the storage structures when loading/unloading operations are complete.*
- *Implement annual operations staff training that includes a salt management component*
- *Routine sweeping of MDTA facilities and roadways, where possible, following winter events, to collect and remove excess salt.*
- *Investigate salt additives or alternative deicers to reduce salt usage, while maintaining safe roadways.*

5 MCM #2: Public or Personnel Involvement and Participation

MDE Comment 9:

MDTA has provided information to comply with MCM #2 requirements. MDTA had 24 participants at public or staff events and held an Earth Day event in 2021. MDTA must continue to implement this program and report progress with the FY 2024 Progress Report.

MDTA Response:
MDTA will continue to implement this program.

6 MCM #3: Illicit Discharge Detection and Elimination (IDDE)

MDE Comment 10:

MDTA provided information to comply with MCM #3 requirements. MDTA maintains a map of the MS4 that includes the required features, implemented the IDDE standard operating procedures (SOP), screened 227 outfalls consistent with the approved SOP, and discovered 46 dry weather flows, none of which were illicit. MDTA maintains inspection records, performed storm drain system maintenance, and provided IDDE training. MDTA must continue to implement this program and report progress with the FY 2024 Progress Report.

MDTA Response:
MDTA will continue to implement this program.

7 MCM #4: Construction Site Stormwater Runoff Control

MDE Comment 11:

MDTA provided information to comply with MCM #4 requirements. MDTA continued to maintain records related to construction site stormwater runoff control and a process for receiving and investigating complaints. MDTA had 46 active construction projects within the reporting period and 23 staff trained in the Department's Responsible Personnel Certification. MDTA must continue to implement this program and report progress with the FY 2024 Progress Report.

MDTA Response:
MDTA will continue to implement this program.

8 MCM #5: Post Construction Stormwater Management

MDE Comment 12:

MDTA provided information to comply with MCM #5 requirements. MDTA performs routine maintenance and inspections and uses checklists consistent with the Department's maintenance schedules. MDTA reported that 726 BMP remediations were conducted in FY 2021 and FY 2022, including major and minor repairs and preventative maintenance. MDTA continued to submit plans to the Department for review and approval and has 15 employees trained in BMP design, inspections, and maintenance. MDTA must continue to implement this program and report progress with the FY 2024 Progress Report.

MDTA Response:
MDTA will continue to implement this program.

9 MCM #6: Pollution Prevention and Good Housekeeping

MDE Comment 13:

MDTA provided information to comply with MCM #6 requirements. MDTA must continue to implement this program and report progress with the FY 2024 Progress Report.

MDTA Response:
MDTA will continue to implement this program.

10 Financial Information

MDE Comment 14:

MDTA reported the following costs for implementing programs: Impervious area restoration program: $10,380,000; MCM #1: 665,000; MCM #2: $122,000, MCM #3: $463,000; MCM #4: $10,667,000; MCM #5: $1,962,000; MCM #6: 857,000.

MDTA Response:

MDTA acknowledges MDE's comment.

Appendix B: Urban BMP Database
(Digital Submission in MS Excel Format)

Appendix C: Restoration Activity Schedule
(Digital Submission in MS Excel Format)

Phase II MS4 Restoration Activity Schedule

Total Acreage (2329.7); Impervious Acre Baseline (1797.9); 20% Restoration Target (359.6 acres)

Type of Restoration Project	BMP Code[1]	BMP ID (Optional)	Cost ($K)[2]*	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status[3]	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
					359.6				
MDTA FT0500S01 Wet pond	PWET	MDTA19BMP0001	$150,000	6.47	353.10	C	2010	582839.8228	1406163.053
MDTA FT0572S01 Pocket pond	PPKT	MDTA19BMP0004	$150,000	2.34	350.76	C	2007	587257.8029	1439158.236
MDTA FT0586S01 Bioretention	FBIO	MDTA19BMP0005	$60,000	1.68	349.08	C	2009	591295.6066	1444333.639
MDTA FT0606N01 Wet extended detention pond	PWED	MDTA19BMP0006	$150,000	0.23	348.85	C	2013	601063.3355	1444418.613
MDTA HT0002A01 Modified Bio-Swale	MSWB	MDTA19BMP0008	$50,000	0.86	347.99	C	2014	559514.4444	1420729.674
MDTA HT0002A02 Modified Bio-Swale	MSWB	MDTA19BMP0009	$50,000	0.33	347.66	C	2014	561055.6579	1418193.477
MDTA HT0002A03 Modified Bio-Swale	MSWB	MDTA19BMP0010	$50,000	0.67	346.99	C	2014	560576.0999	1417394.705
MDTA HT0003A03 Modified Bio-Swale	MSWB	MDTA19BMP0011	$50,000	0.69	346.30	C	2014	559615.1002	1420117.951
MDTA HT0004A01 Modified Bio-Swale	MSWB	MDTA19BMP0012	$50,000	0.46	345.84	C	2014	560245.8225	1419178.703
MDTA HT0009A01 Modified Bio-Swale	MSWB	MDTA19BMP0015	$50,000	0.76	345.08	C	2014	562713.7994	1418632.041
MDTA HT0011A01 Modified Bio-Swale	MSWB	MDTA19BMP0016	$50,000	0.42	344.66	C	2014	563365.1543	1418579.143
MDTA HT0012A01 Modified Bio-Swale	MSWB	MDTA19BMP0017	$50,000	0.4	344.26	C	2014	563831.1378	1418541.981
MDTA HT0015A01 Surface sand filter	FSND	MDTA19BMP0019	$60,000	0.52	343.74	C	2006	565861.1792	1418560.813
MDTA HT0016A01 Modified Bio-Swale	MSWB	MDTA19BMP0021	$50,000	0.57	343.17	C	2014	566196.3668	1418581.757
MDTA HT0016M01 Modified Bio-Swale	MSWB	MDTA19BMP0022	$50,000	0.62	342.55	C	2013	565711.7369	1398002.199
MDTA HT0018A01 Modified Bio-Swale	MSWB	MDTA19BMP0024	$50,000	0.73	341.82	C	2014	566832.5522	1418615.303
MDTA HT0020A01 Modified Bio-Swale	MSWB	MDTA19BMP0025	$50,000	0.34	341.48	C	2014	567918.2842	1418669.364
MDTA HT0021A01 Modified Bio-Swale	MSWB	MDTA19BMP0026	$50,000	0.38	341.10	C	2014	568584.6849	1418699.013
MDTA HT0026M01 Modified Bio-Swale	MSWB	MDTA19BMP0029	$50,000	0.56	340.54	C	2013	567756.1474	1402695.245
MDTA HT0028M01 Modified Bio-Swale	MSWB	MDTA19BMP0031	$50,000	0.97	339.57	C	2013	568260.9131	1403429.875
MDTA HT0028M03 Modified Bio-Swale	MSWB	MDTA19BMP0032	$50,000	0.98	338.59	C	2013	568666.3735	1404017.502
MDTA HT0030M01 Modified Bio-Swale	MSWB	MDTA19BMP0033	$50,000	0.95	337.64	C	2013	569382.0367	1404810.68
MDTA HT0032M01 Modified Bio-Swale	MSWB	MDTA19BMP0034	$50,000	0.3	337.34	C	2013	569841.6231	1405284.681
MDTA HT0034M01 Modified Bio-Swale	MSWB	MDTA19BMP0035	$50,000	0.42	336.92	C	2013	570490.0481	1406203.26
MDTA HT0039M01 Modified Bio-Swale	MSWB	MDTA19BMP0036	$50,000	0.74	336.18	C	2013	570943.0584	1408759.205
MDTA HT0041M01 Modified Bio-Swale	MSWB	MDTA19BMP0037	$50,000	0.78	335.40	C	2013	570790.9696	1409520.238

[1] See Appendix B, Tables B.1.a,b, and c, Urban BMP Database. BMP codes are identified under "MDE BMP Classification"
[2] Provide cost at project completion.
*Most of MDTAs projects have been implemented as part of redevelopment projects versus standalone restoration project. MDTA has developed typical construction costs by BMP type.
[3] Project Status: Enter P for planning and design, UC for under construction, and C for complete

Enter Impervious Acreage Baseline	1797.9
20% Impervious Acre Target Calculated	359.6

Phase II MS4 Restoration Activity Schedule

Total Acreage (2329.7); Impervious Acre Baseline (1797.9); 20% Restoration Target (359.6 acres)

Type of Restoration Project	BMP Code[1]	BMP ID (Optional)	Cost ($K)[2]*	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status[3]	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
					359.6				
MDTA HT0042M01 Modified Bio-Swale	MSWB	MDTA19BMP0038	$50,000	0.51	334.89	C	2013	570654.028	1410114.512
MDTA HT0043M01 Modified Bio-Swale	MSWB	MDTA19BMP0039	$50,000	0.53	334.36	C	2013	570543.4066	1410593.223
MDTA HT0044M01 Modified Bio-Swale	MSWB	MDTA19BMP0040	$50,000	0.4	333.96	C	2013	570443.2111	1411018.947
MDTA HT0044M02 Modified Bio-Swale	MSWB	MDTA19BMP0041	$50,000	0.21	333.75	C	2013	570382.4642	1411272.904
MDTA HT0045M01 Modified Bio-Swale	MSWB	MDTA19BMP0042	$50,000	0.65	333.10	C	2013	570211.1808	1412015.198
MDTA HT0046M01 Modified Bio-Swale	MSWB	MDTA19BMP0044	$50,000	1.03	332.07	C	2013	570095.867	1412513.766
MDTA HT0139N01 Micropool extended detention pond	PMED	MDTA19BMP0047	$150,000	2.71	329.36	C	2013	598577.7572	1442207.493
MDTA HT0140S01 Micropool extended detention pond	PMED	MDTA19BMP0048	$150,000	3.79	325.57	C	2013	599317.4605	1442068.371
MDTA HT0147S01 Wet extended detention pond	PWED	MDTA19BMP0049	$150,000	2.46	323.11	C	2013	602399.9295	1444168.488
MDTA HT0B11N01 Modified Bio-Swale	MSWB	MDTA19BMP0050	$50,000	0.14	322.97	C	2016	563148.6831	1418685.541
MDTA HT0B11S01 Modified Bio-Swale	MSWB	MDTA19BMP0051	$50,000	0.15	322.82	C	2016	563152.3787	1418521.935
MDTA KB0004M01 Modified Bio-Swale	MSWB	MDTA19BMP0297	$50,000	0.47	322.35	C	2014	561030.6481	1428852.561
MDTA KB0005M01 Modified Bio-Swale	MSWB	MDTA19BMP0298	$50,000	0.66	321.69	C	2014	560935.8122	1428211.476
MDTA KB0010M01 Modified Bio-Swale	MSWB	MDTA19BMP0299	$50,000	0.42	321.27	C	2014	561071.2059	1425884.413
MDTA KB0012M01 Modified Bio-Swale	MSWB	MDTA19BMP0300	$50,000	0.48	320.79	C	2014	561120.4571	1425041.535
MDTA KB0465F01 Biofiltration	FBIO	MDTA19BMP0305	$60,000	0.15	320.64	C	2014	570543.6329	1452399.157
MDTA KB0468E01 Biofiltration	FBIO	MDTA19BMP0307	$60,000	0.44	320.20	C	2014	569519.9201	1451018.97
MDTA KB0469A01 Modified Bio-Swale	MSWB	MDTA19BMP0308	$50,000	0.43	319.77	C	2013	569230.2806	1450276.195
MDTA KB0470A01 Modified Bio-Swale	MSWB	MDTA19BMP0309	$50,000	0.32	319.45	C	2013	569010.7243	1450040.062
MDTA KB0472A01 Modified Bio-Swale	MSWB	MDTA19BMP0311	$50,000	0.59	318.86	C	2013	568397.0472	1449326.683
MDTA KB0472A02 Modified Bio-Swale	MSWB	MDTA19BMP0312	$50,000	0.46	318.40	C	2013	568212.925	1449299.406
MDTA KB0475A01 Bioretention	FBIO	MDTA19BMP0313	$60,000	0.12	318.28	C	2006	567224.1329	1448322.196
MDTA KB0493M01 Modified Bio-Swale	MSWB	MDTA19BMP0314	$60,000	1.5	316.78	C	2014	561044.3903	1440839.73
MDTA KB0501E01 Wet pond	PWET	MDTA19BMP0316	$150,000	10.73	306.05	C	2011	560084.6013	1437267.357
MDTA KB0503W01 Modified Bio-Swale	MSWB	MDTA19BMP0318	$50,000	0.18	305.87	C	2014	560643.0744	1436192.32

[1] See Appendix B, Tables B.1.a,b, and c, Urban BMP Database. BMP codes are identified under "MDE BMP Classification"
[2] Provide cost at project completion.
*Most of MDTAs projects have been implemented as part of redevelopment projects versus standalone restoration project. MDTA has developed typical construction costs by BMP type.
[3] Project Status: Enter P for planning and design, UC for under construction, and C for complete

Phase II MS4 Restoration Activity Schedule

Total Acreage (2329.7); Impervious Acre Baseline (1797.9); 20% Restoration Target (359.6 acres)

Type of Restoration Project	BMP Code[1]	BMP ID (Optional)	Cost ($K)[2]*	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status[3]	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
					359.6				
MDTA KB0503W02 Modified Bio-Swale	MSWB	MDTA19BMP0319	$50,000	0.12	305.75	C	2014	560635.5016	1436387.512
MDTA KB0505M01 Modified Bio-Swale	MSWB	MDTA19BMP0320	$50,000	0.88	304.87	C	2014	560633.6985	1434968.265
MDTA KH0620S01 Wet extended detention pond	PWED	MDTA19BMP0321	$150,000	7.48	297.39	C	2013	607608.7685	1448261.412
MDTA KH0626N01 Wet extended detention pond	PWED	MDTA19BMP0322	$150,000	8.06	289.33	C	2013	609869.3953	1449991.333
MDTA KH0629S01 Micropool extended detention pond	PMED	MDTA19BMP0323	$150,000	0.12	289.21	C	2011	611611.5858	1450611.486
MDTA KH0630S01 Micropool extended detention pond	PMED	MDTA19BMP0324	$150,000	3.15	286.06	C	2011	611833.1519	1450919.047
MDTA KH0639N01 Micropool extended detention pond	PMED	MDTA19BMP0330	$150,000	0.01	286.05	C	2011	613694.3331	1455380.687
MDTA KH0649S01 Wet extended detention pond	PWED	MDTA19BMP0333	$150,000	9.18	276.87	C	2013	617419.6143	1459525.859
MDTA KH0652S01 Wet extended detention pond	PWED	MDTA19BMP0334	$150,000	5.61	271.26	C	2013	618272.0104	1460611.963
MDTA KH0655N01 Micropool extended detention pond	PMED	MDTA19BMP0335	$150,000	5.88	265.38	C	2013	618756.2774	1462274.259
MDTA KH0663N01 Sand Storage Pond	FSND	MDTA19BMP0337	$150,000	3.97	261.41	C	2013	611611.59	1450611.49
MDTA KH0667N01 Micropool extended detention pond	PMED	MDTA19BMP0338	$150,000	1.77	259.64	C	2016	622478.0945	1467142.316
MDTA KH0669N01 Extended detention shallow wetland	PWED	MDTA19BMP0340	$150,000	1.63	258.01	C	2016	623706.6657	1468099.862
MDTA KH0671N01 Extended detention shallow wetland	PWED	MDTA19BMP0341	$150,000	1.63	256.38	C	2017	624298.671	1468902.697
MDTA KH0677N01 Micropool extended detention pond	PMED	MDTA19BMP0343	$150,000	10.93	245.45	C	2018	627032.1995	1470751.662
MDTA KH0682N01 Wet extended detention pond	PWED	MDTA19BMP0344	$150,000	3.6	241.85	C	2018	629101.0516	1472407.243
MDTA KH0684S01 Wet extended detention pond	PWED	MDTA19BMP0345	$150,000	3.6	238.25	C	2018	629978.7619	1472394.049
MDTA KH0696S01U Modified Bio-swale	MSWB	MDTA19BMP0350	$50,000	0.85	237.40	C	2016	634678.848	1476802.643
MDTA KH0705M01U Modified Bio-swale	MSWB	MDTA19BMP0352	$50,000	0.41	236.99	C	2016	638606.896	1479827.331
MDTA KH0706M01U Modified Bio-swale	MSWB	MDTA19BMP0353	$50,000	0.96	236.03	C	2016	638914.674	1480185.598

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Phase II MS4 Restoration Activity Schedule

Total Acreage (2329.7); Impervious Acre Baseline (1797.9); 20% Restoration Target (359.6 acres)

Type of Restoration Project	BMP Code[1]	BMP ID (Optional)	Cost ($K)[2]*	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status[3]	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
					359.6				
MDTA KH0709S01U Modified Bio-swale	MSWB	MDTA19BMP0355	$50,000	0.46	235.57	C	2016	639744.728	1481440.914
MDTA KH0713M01U Modified Bio-swale	MSWB	MDTA19BMP0356	$50,000	0.46	235.11	C	2016	640958.938	1483704.773
MDTA KH0718S01U Modified Bio-swale	MSWB	MDTA19BMP0361	$50,000	0.87	234.24	C	2016	642527.887	1485377.930
MDTA KH0740O01 Surface sand filter	FSND	MDTA19BMP0367	$60,000	1.2	233.04	C	2008	646998.7815	1495480.749
MDTA KH0763S01 Wet extended detention pond	PWED	MDTA19BMP0375	$150,000	0.88	232.16	C	2007	653418.2805	1506614.897
MDTA KH0800N01 Modified Grass Swale	MSWG	MDTA19BMP0386	$50,000	1.46	230.70	C	2015	662107.6873	1523131.458
MDTA KH0803S01 Modified Bio-Swale	MSWB	MDTA19BMP0387	$50,000	0.9	229.80	C	2015	663287.5612	1523931.614
MDTA KH0815F01 Rain Garden	MRNG	MDTA19BMP0388	$50,000	0.08	229.72	C	2013	667267.7674	1528408.378
MDTA KH0816F01 Micro Bioretention	MMBR	MDTA19BMP0389	$60,000	0.25	229.47	C	2013	667106.9344	1528725.486
MDTA KH0816F02 Micro Bioretention	MMBR	MDTA19BMP0390	$60,000	0.17	229.30	C	2013	667215.2371	1528510.843
MDTA KH0816F03 Micro Bioretention	MMBR	MDTA19BMP0391	$60,000	0.29	229.01	C	2013	667130.0414	1528595.226
MDTA KH0816F04 Micro Bioretention	MMBR	MDTA19BMP0392	$60,000	0.15	228.86	C	2013	667342.6427	1528452.274
MDTA KH0816F05 Micro Bioretention	MMBR	MDTA19BMP0393	$60,000	0.17	228.69	C	2013	667530.4822	1528625.514
MDTA KH0816F06 Micro Bioretention	MMBR	MDTA19BMP0394	$60,000	0.27	228.42	C	2013	667581.3083	1528622.352
MDTA KH0816F07 Micro Bioretention	MMBR	MDTA19BMP0395	$60,000	0.24	228.18	C	2013	667521.789	1528805.082
MDTA KH0817F01 Rain Garden	MRNG	MDTA19BMP0396	$50,000	0.12	228.06	C	2013	667328.4707	1529080.859
MDTA KH0817F02 Micro Bioretention	MMBR	MDTA19BMP0397	$60,000	0.22	227.84	C	2013	667458.3863	1529143.954
MDTA KH0817F03 Micro Bioretention	MMBR	MDTA19BMP0398	$60,000	0.4	227.44	C	2013	667524.714	1529464.602
MDTA KH0817F04 Micro Bioretention	MMBR	MDTA19BMP0399	$60,000	0.18	227.26	C	2013	667538.171	1529444.13
MDTA KH0817F05 Micro Bioretention	MMBR	MDTA19BMP0400	$60,000	0.24	227.02	C	2013	667852.0825	1529030.471
MDTA KH0817F06 Rain Garden	MRNG	MDTA19BMP0401	$50,000	0.13	226.89	C	2013	668035.7074	1528950.314
MDTA KH0817S01 Surface sand filter	FSND	MDTA19BMP0402	$60,000	0.54	226.35	C	2007	668243.7703	1528887.662
MDTA KH0818F01 Micro Bioretention	MMBR	MDTA19BMP0403	$60,000	0.24	226.11	C	2013	668110.7014	1529178.238
MDTA KH0818F02 Micro Bioretention	MMBR	MDTA19BMP0404	$60,000	0.33	225.78	C	2013	668163.3351	1529244.112
MDTA KH0818F03 Micro Bioretention	MMBR	MDTA19BMP0405	$60,000	0.27	225.51	C	2013	668235.9228	1529549.444
MDTA KH0818F04 Micro Bioretention	MMBR	MDTA19BMP0406	$60,000	0.4	225.11	C	2013	668136.0911	1529652.258

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Phase II MS4 Restoration Activity Schedule

Total Acreage (2329.7); Impervious Acre Baseline (1797.9); 20% Restoration Target (359.6 acres)

Type of Restoration Project	BMP Code[1]	BMP ID (Optional)	Cost ($K)[2]*	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status[3]	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
					359.6				
MDTA KH0818F05 Micro Bioretention	MMBR	MDTA19BMP0407	$60,000	0.24	224.87	C	2013	668070.9082	1529675.289
MDTA KH0819F01 Rain Garden	MRNG	MDTA19BMP0409	$50,000	0.1	224.77	C	2013	668142.0902	1529886.638
MDTA KH0843M01 Modified Bio-Swale	MSWB	MDTA19BMP0414	$50,000	0.82	223.95	C	2016	677489.8952	1539402.08
MDTA KH0849M01 Modified Bio-Swale	MSWB	MDTA19BMP0417	$50,000	0.95	223.00	C	2017	678961.7835	1541384.605
MDTA KH0850M01 Modified Bio-Swale	MSWB	MDTA19BMP0418	$50,000	1.22	221.78	C	2016	679371.7494	1542129.207
MDTA KH0853M01 Modified Bio-Swale	MSWB	MDTA19BMP0419	$50,000	0.54	221.24	C	2016	679732.5025	1542786.664
MDTA KH0853N01 Modified Bio-Swale	MSWB	MDTA19BMP0420	$50,000	0.23	221.01	C	2017	679882.7772	1543252.28
MDTA KH0854M01 Modified Bio-Swale	MSWB	MDTA19BMP0421	$50,000	0.22	220.79	C	2017	680326.9209	1543721.187
MDTA KH0854M02 Modified Bio-Swale	MSWB	MDTA19BMP0422	$50,000	0.63	220.16	C	2016	680681.0709	1544129.552
MDTA KH0854M03 Modified Bio-Swale	MSWB	MDTA19BMP0423	$50,000	0.13	220.03	C	2017	680186.362	1543530.569
MDTA KH0855M01 Modified Bio-Swale	MSWB	MDTA19BMP0424	$50,000	0.56	219.47	C	2016	681005.2007	1544452.205
MDTA KH0857M01 Modified Bio-Swale	MSWB	MDTA19BMP0425	$50,000	0.92	218.55	C	2018	681903.072	1545113.651
MDTA KH0858M01 Modified Bio-Swale	MSWB	MDTA19BMP0426	$50,000	0.95	217.60	C	2017	682565.9657	1545461.746
MDTA KH0860M01 Modified Bio-Swale	MSWB	MDTA19BMP0427	$50,000	0.91	216.69	C	2017	683427.8024	1545861.008
MDTA KH0862M01 Modified Bio-Swale	MSWB	MDTA19BMP0428	$50,000	0.77	215.92	C	2016	684133.8134	1546191.666
MDTA KH0870M01 Modified Bio-Swale	MSWB	MDTA19BMP0430	$50,000	0.53	215.39	C	2015	687413.269	1548832.968
MDTA KH0872M01 Modified Bio-Swale	MSWB	MDTA19BMP0431	$50,000	1.12	214.27	C	2015	688353.3776	1549697.389
MDTA KH0874M01 Modified Bio-Swale	MSWB	MDTA19BMP0432	$50,000	1.17	213.10	C	2015	688895.6789	1550234.075
MDTA KH0875M01 Modified Bio-Swale	MSWB	MDTA19BMP0433	$50,000	0.84	212.26	C	2015	689614.7532	1551000.883
MDTA KH0877M01 Modified Bio-Swale	MSWB	MDTA19BMP0434	$50,000	0.92	211.34	C	2015	690147.4641	1551572.688
MDTA KH0879M01 Modified Bio-Swale	MSWB	MDTA19BMP0435	$50,000	0.51	210.83	C	2015	690660.9524	1552123.833
MDTA KH0882M01 Modified Bio-Swale	MSWB	MDTA19BMP0436	$50,000	0.55	210.28	C	2015	691962.0607	1553469.909
MDTA KH0883M01 Modified Bio-Swale	MSWB	MDTA19BMP0437	$50,000	0.44	209.84	C	2015	692303.3492	1553745.599
MDTA KH0886M01 Modified Bio-Swale	MSWB	MDTA19BMP0438	$50,000	0.99	208.85	C	2016	693547.1001	1554573.315
MDTA KH0888M01 Modified Bio-Swale	MSWB	MDTA19BMP0439	$50,000	0.6	208.25	C	2015	694411.915	1555141.698
MDTA KH0890M01 Modified Bio-Swale	MSWB	MDTA19BMP0440	$50,000	0.64	207.61	C	2015	695271.3865	1555781.18
MDTA KH0891M01 Modified Bio-Swale	MSWB	MDTA19BMP0441	$50,000	0.56	207.05	C	2015	695680.516	1556208.882

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Phase II MS4 Restoration Activity Schedule

Total Acreage (2329.7); Impervious Acre Baseline (1797.9); 20% Restoration Target (359.6 acres)

Type of Restoration Project	BMP Code[1]	BMP ID (Optional)	Cost ($K)[2]*	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status[3]	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
					359.6				
MDTA KH0891S01 Modified Bio-Swale	MSWB	MDTA19BMP0442	$50,000	0.16	206.89	C	2015	695959.1556	1556410.652
MDTA KH0893M01 Modified Bio-Swale	MSWB	MDTA19BMP0443	$50,000	0.44	206.45	C	2015	695944.4915	1556556.927
MDTA KH0893M02 Modified Bio-Swale	MSWB	MDTA19BMP0444	$50,000	0.65	205.80	C	2016	696246.2069	1557063.48
MDTA KH0895M01 Modified Bio-Swale	MSWB	MDTA19BMP0445	$50,000	0.58	205.22	C	2016	696624.2496	1558093.189
MDTA KH0916M01 Modified Bio-Swale	MSWB	MDTA19BMP0446	$50,000	0.58	204.64	C	2015	700165.2891	1568980.782
MDTA KH0919M01 Modified Bio-Swale	MSWB	MDTA19BMP0447	$50,000	0.77	203.87	C	2015	700160.8235	1569991.842
MDTA KH0933M01 Modified Bio-Swale	MSWB	MDTA19BMP0456	$50,000	0.3	203.57	C	2014	703743.2579	1576338.913
MDTA KH0934M01 Modified Bio-Swale	MSWB	MDTA19BMP0457	$50,000	0.71	202.86	C	2014	703900.972	1576665.729
MDTA KH0936M01 Modified Bio-Swale	MSWB	MDTA19BMP0459	$50,000	0.32	202.54	C	2014	704283.8273	1577773.708
MDTA KH0936M02 Modified Bio-Swale	MSWB	MDTA19BMP0460	$50,000	0.33	202.21	C	2014	704347.6188	1577964.892
MDTA KH0936M03 Modified Bio-Swale	MSWB	MDTA19BMP0461	$50,000	0.42	201.79	C	2014	704502.9391	1578419.928
MDTA KH0939M01 Modified Bio-Swale	MSWB	MDTA19BMP0462	$50,000	0.33	201.46	C	2014	704852.5335	1579446.259
MDTA KH0939M02 Modified Bio-Swale	MSWB	MDTA19BMP0463	$50,000	0.37	201.09	C	2014	704980.3424	1579834.779
MDTA KH0941M01 Modified Bio-Swale	MSWB	MDTA19BMP0464	$50,000	0.3	200.79	C	2014	705091.7715	1580154.304
MDTA KH0945M01 Modified Bio-Swale	MSWB	MDTA19BMP0465	$50,000	0.34	200.45	C	2014	705997.9365	1582046.76
MDTA KH0947M01 Modified Bio-Swale	MSWB	MDTA19BMP0466	$50,000	0.54	199.91	C	2014	706192.1548	1582333.085
MDTA KH0947M02 Modified Bio-Swale	MSWB	MDTA19BMP0467	$50,000	0.6	199.31	C	2014	706469.3568	1582742.811
MDTA KH0950M01 Modified Bio-Swale	MSWB	MDTA19BMP0468	$50,000	0.24	199.07	C	2014	707090.4489	1583718.797
MDTA KH0950M02 Modified Bio-Swale	MSWB	MDTA19BMP0469	$50,000	0.38	198.69	C	2014	707435.2334	1584467.936
MDTA KH0964F01 Rain Garden	MRNG	MDTA19BMP0470	$50,000	0.17	198.52	C	2013	709686.9117	1590699.389
MDTA KH0964F02 Rain Garden	MRNG	MDTA19BMP0471	$50,000	0.14	198.38	C	2013	709625.5118	1590810.764
MDTA KH0964F03 Rain Garden	MRNG	MDTA19BMP0472	$50,000	0.18	198.20	C	2013	709579.8173	1590803.014
MDTA KH0964F04 Rain Garden	MRNG	MDTA19BMP0473	$50,000	0.19	198.01	C	2013	709394.387	1590801.31
MDTA KH0964F05 Rain Garden	MRNG	MDTA19BMP0474	$50,000	0.18	197.83	C	2013	709383.5131	1590832.189
MDTA KH0964F06 Rain Garden	MRNG	MDTA19BMP0475	$50,000	0.14	197.69	C	2013	709836.0054	1590948.407
MDTA KH0964F07 Rain Garden	MRNG	MDTA19BMP0476	$50,000	0.15	197.54	C	2013	709873.2834	1590995.958
MDTA KH0964F08 Rain Garden	MRNG	MDTA19BMP0477	$50,000	0.15	197.39	C	2013	709907.1343	1591002.665

[1] See Appendix B, Tables B.1.a,b, and c, Urban BMP Database. BMP codes are identified under "MDE BMP Classification"
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Phase II MS4 Restoration Activity Schedule

Total Acreage (2329.7); Impervious Acre Baseline (1797.9); 20% Restoration Target (359.6 acres)

Type of Restoration Project	BMP Code[1]	BMP ID (Optional)	Cost ($K)[2]*	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status[3]	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
					359.6				
MDTA KH0964F09 Rain Garden	MRNG	MDTA19BMP0478	$50,000	0.12	197.27	C	2013	709369.1066	1591118.425
MDTA KH0964F10 Micro Bioretention	MMBR	MDTA19BMP0479	$50,000	0.23	197.04	C	2013	709396.8068	1591210.576
MDTA KH0965F01 Rain Garden	MRNG	MDTA19BMP0480	$50,000	0.09	196.95	C	2013	709509.3843	1591338.469
MDTA KH0965F02 Rain Garden	MRNG	MDTA19BMP0481	$50,000	0.15	196.80	C	2013	709574.3204	1591403.076
MDTA KH0965F03 Rain Garden	MRNG	MDTA19BMP0482	$50,000	0.18	196.62	C	2013	709589.7182	1591464.269
MDTA KH0965F04 Rain Garden	MRNG	MDTA19BMP0483	$50,000	0.18	196.44	C	2013	709614.8196	1591517.779
MDTA KH0965F05 Rain Garden	MRNG	MDTA19BMP0484	$50,000	0.15	196.29	C	2013	709647.6395	1591575.903
MDTA KH0965F06 Micro Bioretention	MMBR	MDTA19BMP0485	$60,000	0.29	196.00	C	2013	709960.7189	1591178.031
MDTA KH0965F07 Rain Garden	MRNG	MDTA19BMP0486	$50,000	0.14	195.86	C	2013	710049.7801	1591209.543
MDTA KH0965F08 Rain Garden	MRNG	MDTA19BMP0487	$50,000	0.16	195.70	C	2013	710087.2104	1591278.837
MDTA KH0966F01 Micro Bioretention	MMBR	MDTA19BMP0488	$50,000	0.31	195.39	C	2013	709672.6029	1591811.34
MDTA KH0966F02 Rain Garden	MRNG	MDTA19BMP0489	$50,000	0.09	195.30	C	2013	710289.5598	1591647.3
MDTA KH0967F01 Rain Garden	MRNG	MDTA19BMP0490	$50,000	0.19	195.11	C	2013	709961.2995	1592255.553
MDTA KH0967F02 Rain Garden	MRNG	MDTA19BMP0491	$50,000	0.12	194.99	C	2013	710003.0853	1592262.492
MDTA KH0967F03 Micro Bioretention	MMBR	MDTA19BMP0492	$60,000	0.31	194.68	C	2013	710072.6529	1592292.738
MDTA KH0967F04 Micro Bioretention	MMBR	MDTA19BMP0493	$60,000	0.09	194.59	C	2013	710077.1245	1592485.132
MDTA KH0967F05 Micro Bioretention	MMBR	MDTA19BMP0494	$60,000	0.35	194.24	C	2013	710340.5068	1592076.764
MDTA KH0967F06 Micro Bioretention	MMBR	MDTA19BMP0495	$60,000	0.24	194.00	C	2013	710473.8704	1592076.73
MDTA KH0973M01 Modified Bio-Swale	MSWB	MDTA19BMP0497	$50,000	0.32	193.68	C	2015	712367.7699	1595109.892
MDTA KH0973M02 Modified Bio-Swale	MSWB	MDTA19BMP0498	$50,000	0.33	193.35	C	2015	712329.9227	1595140.363
MDTA KH0973M03 Modified Bio-Swale	MSWB	MDTA19BMP0499	$50,000	0.27	193.08	C	2015	712566.3185	1595321.047
MDTA KH0975M01 Modified Bio-Swale	MSWB	MDTA19BMP0500	$50,000	0.42	192.66	C	2015	712779.1503	1595550.704
MDTA KH0975M02 Modified Bio-Swale	MSWB	MDTA19BMP0501	$50,000	0.31	192.35	C	2015	712987.7898	1595771.024
MDTA KH0976M01 Modified Bio-Swale	MSWB	MDTA19BMP0502	$50,000	0.35	192.00	C	2015	713451.2101	1596270.006
MDTA KH0976M02 Modified Bio-Swale	MSWB	MDTA19BMP0503	$50,000	0.41	191.59	C	2015	713645.261	1596479.341
MDTA KH0979M01 Modified Bio-Swale	MSWB	MDTA19BMP0504	$50,000	0.16	191.43	C	2015	714070.3802	1597051.19
MDTA KH0979M02 Modified Bio-Swale	MSWB	MDTA19BMP0505	$50,000	0.49	190.94	C	2015	714350.4658	1597347.466

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Phase II MS4 Restoration Activity Schedule

Total Acreage (2329.7); Impervious Acre Baseline (1797.9); 20% Restoration Target (359.6 acres)

Type of Restoration Project	BMP Code[1]	BMP ID (Optional)	Cost ($K)[2]*	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status[3]	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
					359.6				
MDTA KH0980M01 Modified Bio-Swale	MSWB	MDTA19BMP0506	$50,000	0.37	190.57	C	2015	714482.4029	1597565.89
MDTA KH0982M01 Modified Bio-Swale	MSWB	MDTA19BMP0507	$50,000	0.28	190.29	C	2015	714849.9809	1598423.246
MDTA KH0986M01 Modified Bio-Swale	MSWB	MDTA19BMP0509	$50,000	0.43	189.86	C	2014	715349.607	1600437.375
MDTA KH0986M02 Modified Bio-Swale	MSWB	MDTA19BMP0510	$50,000	0.27	189.59	C	2014	715375.4121	1600732.266
MDTA KH0986M03 Modified Bio-Swale	MSWB	MDTA19BMP0511	$50,000	0.14	189.45	C	2014	715395.8621	1600912.208
MDTA KH0986M04 Modified Bio-Swale	MSWB	MDTA19BMP0512	$50,000	0.18	189.27	C	2014	715428.074	1601233.865
MDTA KH0986M05 Modified Bio-Swale	MSWB	MDTA19BMP0513	$50,000	0.33	188.94	C	2014	715439.7541	1601433.719
MDTA KH0987M01 Modified Bio-Swale	MSWB	MDTA19BMP0514	$50,000	0.44	188.50	C	2014	715484.8372	1601766.93
MDTA KH0987M02 Modified Bio-Swale	MSWB	MDTA19BMP0515	$50,000	0.4	188.10	C	2014	715525.0782	1602031.995
MDTA KH0987M03 Modified Bio-Swale	MSWB	MDTA19BMP0516	$50,000	0.39	187.71	C	2014	715563.0283	1602295.508
MDTA KH0987M04 Modified Bio-Swale	MSWB	MDTA19BMP0517	$50,000	0.33	187.38	C	2014	715611.906	1602602.93
MDTA KH0989M01 Modified Bio-Swale	MSWB	MDTA19BMP0518	$50,000	0.4	186.98	C	2014	715677.0671	1602923.981
MDTA KH0989M02 Modified Bio-Swale	MSWB	MDTA19BMP0519	$50,000	0.25	186.73	C	2015	715765.888	1603257.008
MDTA KH0991M01 Modified Bio-Swale	MSWB	MDTA19BMP0520	$50,000	0.58	186.15	C	2014	716194.6364	1604300.743
MDTA KH0994M01 Modified Bio-Swale	MSWB	MDTA19BMP0522	$50,000	0.27	185.88	C	2014	716664.7032	1605061.813
MDTA KH0998M02 Modified Bio-Swale	MSWB	MDTA19BMP0523	$50,000	0.52	185.36	C	2015	717795.1265	1606666.609
MDTA KH1000M01 Modified Bio-Swale	MSWB	MDTA19BMP0526	$50,000	0.71	184.65	C	2015	718083.6654	1607074.804
MDTA KH1002M01 Modified Bio-Swale	MSWB	MDTA19BMP0527	$50,000	0.54	184.11	C	2015	718782.4239	1608046.6
MDTA KH1004M01 Modified Bio-Swale	MSWB	MDTA19BMP0528	$50,000	0.41	183.70	C	2015	719838.1926	1609529.795
MDTA KH1004M02 Modified Bio-Swale	MSWB	MDTA19BMP0529	$50,000	0.51	183.19	C	2015	720039.8197	1609816.194
MDTA KH1005M01 Modified Bio-Swale	MSWB	MDTA19BMP0530	$50,000	0.62	182.57	C	2015	720289.1261	1610184.395
MDTA KH1005M02 Modified Bio-Swale	MSWB	MDTA19BMP0531	$50,000	0.86	181.71	C	2015	720525.2012	1610560.888
MDTA KH1013M01 Modified Bio-Swale	MSWB	MDTA19BMP0534	$50,000	0.4	181.31	C	2015	722111.6362	1613893.335
MDTA KH1013M02 Modified Bio-Swale	MSWB	MDTA19BMP0535	$50,000	0.39	180.92	C	2015	722208.5805	1614170.107
MDTA KH1014M01 Modified Bio-Swale	MSWB	MDTA19BMP0536	$50,000	0.42	180.50	C	2015	722511.6875	1615183.684
MDTA KH1019M01 Modified Bio-Swale	MSWB	MDTA19BMP0537	$50,000	0.37	180.13	C	2015	722381.0144	1616576.178
MDTA KH1020M01 Modified Bio-Swale	MSWB	MDTA19BMP0538	$50,000	0.4	179.73	C	2015	722225.3886	1616951.285

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Phase II MS4 Restoration Activity Schedule

Total Acreage (2329.7); Impervious Acre Baseline (1797.9); 20% Restoration Target (359.6 acres)

Type of Restoration Project	BMP Code[1]	BMP ID (Optional)	Cost ($K)[2]*	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status[3]	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
					359.6				
MDTA KH1027M01 Modified Bio-Swale	MSWB	MDTA19BMP0540	$50,000	0.54	179.19	C	2015	720963.9904	1620377.5
MDTA KH1028M01 Modified Bio-Swale	MSWB	MDTA19BMP0541	$50,000	0.41	178.78	C	2015	720995.3757	1620796.616
MDTA KH1028M02 Modified Bio-Swale	MSWB	MDTA19BMP0542	$50,000	0.38	178.40	C	2015	721058.4761	1621104.179
MDTA KH1036M01 Modified Bio-Swale	MSWB	MDTA19BMP0543	$50,000	0.73	177.67	C	2015	721941.5231	1624686.085
MDTA KH1036M02 Modified Bio-Swale	MSWB	MDTA19BMP0544	$50,000	0.36	177.31	C	2015	722024.7324	1625014.017
MDTA KH1038M01 Modified Bio-Swale	MSWB	MDTA19BMP0545	$50,000	1.06	176.25	C	2015	722199.2058	1626338.021
MDTA KH1039M01 Modified Bio-Swale	MSWB	MDTA19BMP0546	$50,000	0.45	175.80	C	2015	722184.3778	1626807.102
MDTA KH1039M02 Modified Bio-Swale	MSWB	MDTA19BMP0547	$50,000	0.69	175.11	C	2015	722141.6827	1627215.209
MDTA KH1039M03 Modified Bio-Swale	MSWB	MDTA19BMP0548	$50,000	0.38	174.73	C	2015	722001.8455	1627920.816
MDTA KH1044M01 Modified Bio-Swale	MSWB	MDTA19BMP0549	$50,000	0.4	174.33	C	2015	721718.0655	1628732.994
MDTA KH1044M02 Modified Bio-Swale	MSWB	MDTA19BMP0550	$50,000	0.47	173.86	C	2015	721619.1836	1628991.341
MDTA KH1048M01 Modified Bio-Swale	MSWB	MDTA19BMP0551	$50,000	0.72	173.14	C	2015	721281.4046	1631026.721
MDTA KH1050M01 Modified Bio-Swale	MSWB	MDTA19BMP0552	$50,000	0.84	172.30	C	2015	721478.5855	1632425.772
MDTA KH1050M02 Modified Bio-Swale	MSWB	MDTA19BMP0553	$50,000	0.62	171.68	C	2015	721844.2842	1633523.549
MDTA KH1053M01 Modified Bio-Swale	MSWB	MDTA19BMP0554	$50,000	0.58	171.10	C	2015	722022.6202	1634039.094
MDTA KH1053M02 Modified Bio-Swale	MSWB	MDTA19BMP0555	$50,000	0.69	170.41	C	2015	722199.0564	1634550.649
MDTA KH1055M01 Modified Bio-Swale	MSWB	MDTA19BMP0556	$50,000	0.42	169.99	C	2015	722363.2082	1635027.473
MDTA KH1055M02 Modified Bio-Swale	MSWB	MDTA19BMP0557	$50,000	0.34	169.65	C	2015	722493.8561	1635407.197
MDTA KH1059M01 Modified Bio-Swale	MSWB	MDTA19BMP0558	$50,000	0.6	169.05	C	2014	722934.2053	1636724.644
MDTA KH1060M01 Modified Bio-Swale	MSWB	MDTA19BMP0559	$50,000	0.28	168.77	C	2014	723007.8922	1637055.752
MDTA KH1061M01 Modified Bio-Swale	MSWB	MDTA19BMP0560	$50,000	0.65	168.12	C	2014	723096.5428	1637661.749
MDTA KH1061M02 Modified Bio-Swale	MSWB	MDTA19BMP0561	$50,000	0.69	167.43	C	2014	723114.7305	1638002.263
MDTA KH1063M01 Modified Bio-Swale	MSWB	MDTA19BMP0562	$50,000	0.55	166.88	C	2014	723105.5304	1638568.636
MDTA KH1063M02 Modified Bio-Swale	MSWB	MDTA19BMP0563	$50,000	0.41	166.47	C	2014	723078.6985	1638848.818
MDTA KH1064M01 Modified Bio-Swale	MSWB	MDTA19BMP0564	$50,000	0.38	166.09	C	2014	723028.3882	1639180.009
MDTA KH1064M02 Modified Bio-Swale	MSWB	MDTA19BMP0565	$50,000	0.48	165.61	C	2014	722974.5266	1639446.169
MDTA KH1065M01 Modified Bio-Swale	MSWB	MDTA19BMP0566	$50,000	0.67	164.94	C	2014	722881.7531	1639796.985

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Phase II MS4 Restoration Activity Schedule

Total Acreage (2329.7); Impervious Acre Baseline (1797.9); 20% Restoration Target (359.6 acres)

Type of Restoration Project	BMP Code[1]	BMP ID (Optional)	Cost ($K)[2]*	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status[3]	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
					359.6				
MDTA KH1065M02 Modified Bio-Swale	MSWB	MDTA19BMP0567	$50,000	0.56	164.38	C	2014	722751.8508	1640184.851
MDTA KH1066M01 Modified Bio-Swale	MSWB	MDTA19BMP0568	$50,000	0.38	164.00	C	2014	722629.7328	1640511.483
MDTA KH1067M01 Modified Bio-Swale	MSWB	MDTA19BMP0569	$50,000	0.4	163.60	C	2014	722519.6893	1640804.446
MDTA KH1070M01 Modified Bio-Swale	MSWB	MDTA19BMP0570	$50,000	0.41	163.19	C	2014	722320.2543	1641338.602
MDTA KH1070M02 Modified Bio-Swale	MSWB	MDTA19BMP0571	$50,000	0.42	162.77	C	2014	722162.7713	1641754.84
MDTA KH1070M03 Modified Bio-Swale	MSWB	MDTA19BMP0572	$50,000	0.75	162.02	C	2014	722014.6985	1642225.389
MDTA KH1072M01 Modified Bio-Swale	MSWB	MDTA19BMP0573	$50,000	0.47	161.55	C	2014	721911.6489	1642670.018
MDTA KH1072M02 Modified Bio-Swale	MSWB	MDTA19BMP0574	$50,000	0.45	161.10	C	2014	721861.8587	1642994.383
MDTA KH1072M03 Modified Bio-Swale	MSWB	MDTA19BMP0575	$50,000	0.82	160.28	C	2014	721823.7198	1643532.91
MDTA KH1074M01 Modified Bio-Swale	MSWB	MDTA19BMP0576	$50,000	0.8	159.48	C	2014	721799.7625	1644297.823
MDTA KH1074M02 Modified Bio-Swale	MSWB	MDTA19BMP0577	$50,000	0.6	158.88	C	2014	721780.2789	1645021.918
MDTA KH1074M03 Modified Bio-Swale	MSWB	MDTA19BMP0578	$50,000	0.74	158.14	C	2014	721761.2881	1645673.789
MDTA KH1076M01 Modified Bio-Swale	MSWB	MDTA19BMP0579	$50,000	0.68	157.46	C	2014	721746.5596	1646209.216
MDTA KH1076M02 Modified Bio-Swale	MSWB	MDTA19BMP0580	$50,000	0.47	156.99	C	2014	721735.6127	1646678.315
MDTA KH1078M01 Modified Bio-Swale	MSWB	MDTA19BMP0582	$50,000	0.43	156.56	C	2014	721697.1699	1647291.716
MDTA KH1078M02 Modified Bio-Swale	MSWB	MDTA19BMP0583	$50,000	0.71	155.85	C	2014	721657.7404	1647643.023
MDTA KH1080M01 Modified Bio-Swale	MSWB	MDTA19BMP0585	$50,000	0.73	155.12	C	2014	721572.1765	1648216.503
MDTA KH1080M02 Modified Bio-Swale	MSWB	MDTA19BMP0586	$50,000	0.68	154.44	C	2014	721490.4432	1648647.124
MDTA KH1082M01 Modified Bio-Swale	MSWB	MDTA19BMP0587	$50,000	0.9	153.54	C	2014	721362.5117	1649245.293
MDTA NB0021F01 Porous pavers	APRP	MDTA19BMP0610	$7,200	0.03	153.51	C	2011	254346.921	1319029.806
MDTA NB0021S01 Surface sand filter	FSND	MDTA19BMP0611	$60,000	0.92	152.59	C	2009	254062.1143	1318662.911
Street Sweeping (Average of FY19 - FY 23)	VSS	MDTA19BMP0615	$120,000/yr	190.9	-38.31	C			
Impervious Area Removal	IMPP	MDTA19BMP0618	$40,000	23.28	-61.59	C			
MDTA FT0501S01 Surface Sand Filter	FSND	MDTA19BMP0622	$60,000	2.2	-63.79	C	2020	582511.758	1405986.921
MDTA HT0118S01 Dry Swale	ODSW	MDTA19BMP0623	$50,000	0.74	-64.53	C	2021	588531.3577	1438978.797
MDTA KB0467E01 Modified Grass Swale	MSWG	MDTA19BMP0624	$30,000	0.35	-64.88	C	2021	569960.877	1451489.823

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Phase II MS4 Restoration Activity Schedule

Total Acreage (2329.7); Impervious Acre Baseline (1797.9); 20% Restoration Target (359.6 acres)

Type of Restoration Project	BMP Code[1]	BMP ID (Optional)	Cost ($K)[2]*	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status[3]	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
					359.6				
MDTA KB0467E02 Modified Grass Swale	MSWG	MDTA19BMP0625	$30,000	0.26	-65.14	C	2021	569840.527	1451377.714
MDTA KB0467E03 Modified Grass Swale	MSWG	MDTA19BMP0626	$30,000	0.82	-65.96	C	2021	569688.592	1451220.381
MDTA KB0469E01 Modified Grass Swale	MSWG	MDTA19BMP0627	$30,000	0.69	-66.65	C	2021	569363.819	1450789.261
MDTA KB0469A02 Micro Bioretention	MMBR	MDTA19BMP0628	$60,000	0.25	-66.90	C	2021	569404.687	1450512.691
MDTA KB0469A03 Micro Bioretention	MMBR	MDTA19BMP0629	$60,000	0.36	-67.26	C	2021	569330.867	1450445.138
MDTA KH0688S01 Modified Grass Swale	MSWG	MDTA19BMP0630	$30,000	0.16	-67.42	C	2020	631462.632	1473552.144
MDTA KH0691S01 Modified Grass Swale	MSWG	MDTA19BMP0631	$30,000	0.5	-67.92	C	2020	632737.280	1474781.861
MDTA HT0014W01 Modified Bio-Swale	MSWB	MDTA19BMP0659	$50,000	0.33	-68.25	C	2019	565470.5646	1397354.628
MDTA HT0014W02 Modified Bio-Swale	MSWB	MDTA19BMP0650	$50,000	0.22	-68.47	C	2019	565586.0511	1397598.021
MDTA HT0022W01 Modified Bio-Swale	MSWB	MDTA19BMP0635	$50,000	0.1	-68.57	C	2019	566952.9355	1400826.695
MDTA HT0022W02 Modified Bio-Swale	MSWB	MDTA19BMP0643	$50,000	0.06	-68.63	C	2019	566978.8898	1400975.792
MDTA HT0022W03 Modified Bio-Swale	MSWB	MDTA19BMP0670	$50,000	0.09	-68.72	C	2019	567008.6818	1401130.213
MDTA HT0022W04 Modified Bio-Swale	MSWB	MDTA19BMP0665	$50,000	0.08	-68.80	C	2019	567047.423	1401297.24
MDTA HT0028E01 Modified Bio-Swale	MSWB	MDTA19BMP0678	$50,000	0.29	-69.09	C	2019	568566.3857	1404047.374
MDTA HT0028W01 Modified Bio-Swale	MSWB	MDTA19BMP0639	$50,000	0.36	-69.45	C	2019	568353.0257	1403429.91
MDTA HT0028W02 Modified Bio-Swale	MSWB	MDTA19BMP0663	$50,000	0.17	-69.62	C	2019	568581.2319	1403761.18
MDTA HT0B07N01 Modified Bio-Swale	MSWB	MDTA19BMP0672	$50,000	0.43	-70.05	C	2019	562041.3664	1418767.694
MDTA HT0B07N02 Modified Bio-Swale	MSWB	MDTA19BMP0645	$50,000	0.14	-70.19	C	2019	561720.9233	1418793.117
MDTA HT0B07N03 Modified Bio-Swale	MSWB	MDTA19BMP0641	$50,000	0.15	-70.34	C	2019	561567.6515	1418806.052
MDTA HT0B12S01 Modified Bio-Swale	MSWB	MDTA19BMP0655	$50,000	0.2	-70.54	C	2019	563855.5549	1418467.549
MDTA HT0B12S02 Modified Bio-Swale	MSWB	MDTA19BMP0634	$50,000	0.21	-70.75	C	2019	564289.2929	1418439.502
MDTA HT0B12S03 Modified Bio-Swale	MSWB	MDTA19BMP0654	$50,000	0.11	-70.86	C	2019	564653.4974	1418432.917
MDTA FT0560F01U Wet Pond	PWET	MDTA19BMP0669	$150,000	3.39	-74.25	C	2020	582301.8677	1436383.404
MDTA KB0464N01U Wet Pond	PWET	MDTA19BMP0651	$150,000	2.71	-76.96	C	2020	570772.8544	1452650.026

[1] See Appendix B, Tables B.1.a,b, and c, Urban BMP Database. BMP codes are identified under "MDE BMP Classification"
[2] Provide cost at project completion.
*Most of MDTAs projects have been implemented as part of redevelopment projects versus standalone restoration project. MDTA has developed typical construction costs by BMP type.
[3] Project Status: Enter P for planning and design, UC for under construction, and C for complete

Phase II MS4 Restoration Activity Schedule

Total Acreage (2329.7); Impervious Acre Baseline (1797.9); 20% Restoration Target (359.6 acres)

Type of Restoration Project	BMP Code[1]	BMP ID (Optional)	Cost ($K)[2]*	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status[3]	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
					359.6				
MDTA LB0319F01U Wet Pond	PWET	MDTA19BMP0647	$150,000	1.66	-78.62	C	2020	490845.8818	1480430.68
MDTA LB0319F03U Submerged Gravel Wetland	MSGW	MDTA19BMP0668	$150,000	0.82	-79.44	C	2020	491099.7131	1480364.186
MDTA KB0455S01U Wet Pond	PWET		$150,000	5.45	-84.89	UC	2023		
MDTA HT0125S01 Tree Planting	FPU		$35,000	0.75	-85.64	UC	2023		
MDTA HT0126N01 Tree Planting	FPU		$35,000	0.12	-85.76	UC	2023		
					-85.76				
					-85.76				
					-85.76	

Maryland Transportation Authority

Maryland Transportation Authority (MDTA)

October 31, 2023 Submittal

Response to Maryland Department of Environment (MDE) Comments on Fiscal Year 2022 Progress Report
for
National Pollutant Discharge Elimination System (NPDES) General Permit 13-SF-5501 for Discharges from State and Federal Small Municipal Separate Storm Sewer Systems (MS4)

SUBMITTED TO:
Maryland Department of the Environment
Water and Science Administration
Program Review
1800 Washington Boulevard
Baltimore, Maryland 21230

SUBMITTED BY:
Maryland Department of Transportation
Maryland Transportation Authority
Office of Engineering and Construction
Environmental Division
300 Authority Drive
Baltimore, Maryland 21222

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1 Introduction

The National Pollutant Discharge (NPDES) General Permit for Discharges from State and Federal Small Municipal Separate Storm Sewer Systems (MS4), Permit No.13-SF-5501 (General Permit), was reissued to the Maryland Transportation Authority (MDTA) on October 31, 2018. MDTA properties covered under this permit are the Baltimore Harbor Tunnel, Fort McHenry Tunnel, Francis Scott Key Bridge, Intercounty Connector, John F. Kennedy Memorial Highway, William Preston Lane Jr. Memorial (Bay) Bridge, Harry W. Nice Memorial Bridge, and Thomas J. Hatem Memorial Bridge facilities. MDTA submitted its report for fiscal year (FY) 2022, the fourth year of the permit term, to the Maryland Department of the Environment (MDE) in October 2022. This submission included the Impervious Area Restoration Form and Work Plan, which discussed MDTA's plans to meet the Chesapeake Bay Restoration and Total Maximum Daily Load (TMDL) requirements set forth by the permit through new stormwater management projects, as well as the six Minimum Control Measures (MCM) requirements. MDE provided comments to MDTA on March 17, 2023, regarding their fourth annual report submission. MDE comments were organized by topic area and are provided below. MDTA's responses are shown in italics following the MDE comments.

2 Reporting

MDE Comment 1:

Maryland Department of Transportation - Maryland Transportation Authority (MDTA) submitted a complete Progress Report Form, responses to the prior year's review, a signature for the appropriate responsible personnel, and contact information. This information is required to be updated annually.

MDTA Response:
MDTA acknowledges MDE's comment.

MDE Comment 2:

The next Progress Report is due October 31, 2023 and must include Sections I of the Progress Report, updates to the impervious area restoration program, and responses to all comments outlined below.

MDTA Response:
MDTA's FY 2023 MS4 Progress Report includes updates to the impervious area restoration progress section. This submission also includes the reporting forms and attachments, which provide details on impervious area reporting.

3 Section I: Impervious Area Restoration Reporting

MDE Comment 3:

MDTA's restoration target is 360 acres. MDTA implemented projects to restore 423 acres through redevelopment, retrofit projects, impervious area removal, and street sweeping.

MDTA Response:

MDTA acknowledges MDE's comment.

MDE Comment 4:

MDTA provided an updated Work Plan that included strategies for developing as-built plans and best management practice (BMP) verification, long term implementation and funding for maintenance and inspection of BMPs, and evaluation of water quality retrofit opportunities. An updated Work Plan must be submitted annually.

MDTA Response:

MDTA included an updated Work Plan with the FY 2023 Progress Report submission.

MDE Comment 5:

MDTA provided an updated Restoration Activity Schedule (RAS). The RAS includes completed BMPs that exceed the 20% restoration target and projects under construction that may treat an additional 18 impervious acres. The Department provides the following comments:

a. The Department requests that the costs be included in the RAS for each BMP completed during the permit term.
b. The Department requests that MDTA continue to plan for restoration implementation beyond 2025. An updated RAS submitted in the FY 2023 Progress Report should provide an estimate of impervious area restoration implementation through 2030. The Department recommends that MDTA plan for additional restoration equivalent to 10% of the current baseline by 2030. This information will help to inform future permit requirements.

MDTA Response:

a. *Most of the projects that have been implemented to meet MDTA's restoration requirements have been part of redevelopment projects as opposed to standalone restoration projects. MDTA has developed typical construction costs by BMP type which have been included in the FY23 RAS.*

b. *MDTA will work with MDE during permit renewal negotiations to establish reasonable and achievable restoration goals.*

MDE Comment 6:

MDTA provided an updated urban BMP database. The Department provides the following comments:

a. On March 15, 2023, MDTA and the Department met to discuss documentation of MDTA's BMP inspections and maintenance program. MDTA performs major inspections triennially and has reported them in the BMP database as both the last inspection date and maintenance date. Maintenance has been defined as remedial actions taken resulting from those inspections. MDTA is required to conduct seasonal and annual maintenance per the approved stormwater management plans. MDTA stated that operations staff maintain the BMPs throughout the year as part of standard operations, which is reflected in MDTA's submitted BMP maintenance manual. MDTA will update the BMP database to reflect preventative maintenance activities. The maintenance dates must be within the reporting year for all BMPs. In addition, MDTA will incorporate schedules of maintenance activities in annual staff training.

b. MDTA reported six failing BMPs in the database. Until those BMPs are brought into passing condition, the PE addressed should be 0.

c. MDTA must continue to update the BMP database as additional as-built information is collected and new BMPs are completed.

MDTA Response:

a. In the March 15th discussion with MDE, MDTA described our robust stormwater remediation program which includes conducting routine and triennial inspections of BMPs to monitor their performance and stability. The inspections confirm that preventative maintenance is performed and if any additional remedial actions are required. The BMP database is updated to reflect preventative maintenance activities and inspections that include ratings of individual parameters and overall rating.

b. MDTA acknowledges this comment and has kept the PE at 0 until those BMP are brought into passing condition.

c. MDTA will continue to update the BMP database as needed.

4 Minimum Control Measure (MCM) #1: Public or Personnel Education and Outreach

MDE Comment 7:

MDTA provided information to comply with minimum control measure (MCM) #1 requirements. MDTA continued to maintain a process for receiving and responding to stormwater related complaints and to provide training for staff related to stormwater pollution prevention, environmental briefings for managers, illicit discharge detection and elimination, good housekeeping, and BMP maintenance. MDTA submitted training presentations and examples of distributed materials. MDTA must continue to implement this program and provide an update on progress in the FY 2024 Progress Report.

MDTA Response:
MDTA will continue to implement this program.

MDE Comment 8:

MDTA reported investigating a complaint regarding high chloride concentrations in a well that MDTA determined was a result of road salt from I-95, the weigh station, stormwater management pond, and salt barn. MDTA sent the report to Maryland's State Treasurer's office for further action but will not oversee the resolution because it is a groundwater complaint. However, salt management is an integral part of MDTA's good housekeeping plan required under MCM #6. The Department requests information in the FY 2023 Progress Report on best practices MDTA is using to minimize salt runoff from the MDTA-maintained surfaces at this location.

MDTA Response:
MDTA continues to implement roadway best management practices to optimize salt/brining application and storage, while maintaining safe roadways. Practices include:

- *Follow 2012 Statewide Salt Management Plan and Standard Operating Procedures*
- *Track salt usage and snow / ice removal efforts, plus severity of winter weather to help correlate salt use and salt damage*
- *Implement and improve material storage and handling procedures:*
    - *Salt is stored in salt barns/domes/other permanent structures and use straw bales, aggregates or some other type of structure are placed across the storage structures to reduce leaching during non-application periods.*
    - *Salt and brine storage structures are inspected during quarterly and annual site inspections implemented as part of MDTA's Good Housekeeping practices and Stormwater Pollution Prevention Plans as part of the Stormwater Industrial General Permit 20-SW.*
    - *Unused material is swept into the storage structures when loading/unloading operations are complete.*
- *Implement annual operations staff training that includes a salt management component*
- *Routine sweeping of MDTA facilities and roadways, where possible, following winter events, to collect and remove excess salt.*
- *Investigate salt additives or alternative deicers to reduce salt usage, while maintaining safe roadways.*

5 MCM #2: Public or Personnel Involvement and Participation

MDE Comment 9:

MDTA has provided information to comply with MCM #2 requirements. MDTA had 24 participants at public or staff events and held an Earth Day event in 2021. MDTA must continue to implement this program and report progress with the FY 2024 Progress Report.

MDTA Response:
MDTA will continue to implement this program.

6 MCM #3: Illicit Discharge Detection and Elimination (IDDE)

MDE Comment 10:

MDTA provided information to comply with MCM #3 requirements. MDTA maintains a map of the MS4 that includes the required features, implemented the IDDE standard operating procedures (SOP), screened 227 outfalls consistent with the approved SOP, and discovered 46 dry weather flows, none of which were illicit. MDTA maintains inspection records, performed storm drain system maintenance, and provided IDDE training. MDTA must continue to implement this program and report progress with the FY 2024 Progress Report.

MDTA Response:
MDTA will continue to implement this program.

7 MCM #4: Construction Site Stormwater Runoff Control

MDE Comment 11:

MDTA provided information to comply with MCM #4 requirements. MDTA continued to maintain records related to construction site stormwater runoff control and a process for receiving and investigating complaints. MDTA had 46 active construction projects within the reporting period and 23 staff trained in the Department's Responsible Personnel Certification. MDTA must continue to implement this program and report progress with the FY 2024 Progress Report.

MDTA Response:
MDTA will continue to implement this program.

8 MCM #5: Post Construction Stormwater Management

MDE Comment 12:

MDTA provided information to comply with MCM #5 requirements. MDTA performs routine maintenance and inspections and uses checklists consistent with the Department's maintenance schedules. MDTA reported that 726 BMP remediations were conducted in FY 2021 and FY 2022, including major and minor repairs and preventative maintenance. MDTA continued to submit plans to the Department for review and approval and has 15 employees trained in BMP design, inspections, and maintenance. MDTA must continue to implement this program and report progress with the FY 2024 Progress Report.

MDTA Response:
MDTA will continue to implement this program.

9 MCM #6: Pollution Prevention and Good Housekeeping

MDE Comment 13:

MDTA provided information to comply with MCM #6 requirements. MDTA must continue to implement this program and report progress with the FY 2024 Progress Report.

MDTA Response:
MDTA will continue to implement this program.

10 Financial Information

MDE Comment 14:

MDTA reported the following costs for implementing programs: Impervious area restoration program: $10,380,000; MCM #1: 665,000; MCM #2: $122,000, MCM #3: $463,000; MCM #4: $10,667,000; MCM #5: $1,962,000; MCM #6: 857,000.

MDTA Response:

MDTA acknowledges MDE's comment.

Table B.1.a. BMP Reporting Requirements (Sample Input Table)

This table represents the basic data elements that are required of all structural, ESD and alternative Best Management Practices (BMPs)

BMP_ID[1]	REPORTING_YEAR	MD_NORTH [2]	MD_EAST	PERMIT_NUM	LOCAL_BMP_ID	BMP_NAME	BMP_CLASS	BMP_TYPE	CON_PURPOSE	LAST_INSP_DATE	BMP_STATUS	MAIN_DATE	REINSP_DATE	REINSP_STATUS	GEN_COMMENTS
MDTA19BMP0001	2023	582839.8228	1406163.0532	13-SF-5501	07-SF-0022	FT0500S01	S	PWET	REDE	6/5/2023	P	6/8/2023	6/4/2026		
MDTA19BMP0003	2023	582922.4357	1436961.9306	13-SF-5501	91-SF-0237	FT0561F01	S	PWET	REDE	4/6/2021	P	6/8/2023	4/5/2024		
MDTA19BMP0004	2023	587257.8029	1439158.2356	13-SF-5501	07-SF-1054	FT0572S01	S	PPKT	REDE	6/5/2023	P	6/8/2023	6/4/2026		
MDTA19BMP0005	2023	591295.6066	1444333.6392	13-SF-5501	09-SF-0237	FT0586S01	S	FBIO	REDE	6/5/2023	P	6/8/2023	6/4/2026		
MDTA19BMP0006	2023	601063.3355	1444418.6127	13-SF-5501		FT0606N01	S	PWED	REDE	6/5/2023	P	6/8/2023	6/4/2026		
MDTA19BMP0007	2023	693716.4164	1573566.3539	13-SF-5501		HB0001F01	S	ITRN	REDE	10/1/2020	P	11/1/2022	10/1/2023		
MDTA19BMP0008	2023	559514.4444	1420729.6745	13-SF-5501	13-SF-0257	HT0002A01	E	MSWB	REST	2/22/2022	P	6/8/2023	2/21/2025		
MDTA19BMP0009	2023	561055.6579	1418193.4768	13-SF-5501	13-SF-0257	HT0002A02	E	MSWB	REST	3/2/2022	P	6/8/2023	3/1/2025		
MDTA19BMP0010	2023	560576.0999	1417394.7055	13-SF-5501	13-SF-0257	HT0002A03	E	MSWB	REST	3/2/2022	P	6/8/2023	3/1/2025		
MDTA19BMP0011	2023	559615.1002	1420117.9508	13-SF-5501	13-SF-0257	HT0003A03	E	MSWB	REST	2/22/2022	P	6/8/2023	2/21/2025		
MDTA19BMP0012	2023	560245.8225	1419178.7029	13-SF-5501	13-SF-0257	HT0004A01	E	MSWB	REST	2/22/2022	P	6/8/2023	2/21/2025		
MDTA19BMP0013	2023	562027.0502	1418690.2472	13-SF-5501		HT0006M01	E	MSWG	REST	6/15/2023	P	6/8/2023	6/14/2026		
MDTA19BMP0014	2023	561582.2288	1418728.1883	13-SF-5501		HT0007M01	E	MSWG	REST	6/15/2023	P	6/8/2023	6/14/2026		
MDTA19BMP0015	2023	562713.7994	1418632.0406	13-SF-5501	13-SF-0257	HT0009A01	E	MSWB	REST	2/23/2022	P	6/8/2023	2/22/2025		
MDTA19BMP0016	2023	563365.1543	1418579.1427	13-SF-5501	13-SF-0257	HT0011A01	E	MSWB	REST	2/28/2022	P	6/8/2023	2/27/2025		
MDTA19BMP0017	2023	563831.1378	1418541.9815	13-SF-5501	13-SF-0257	HT0012A01	E	MSWB	REST	2/23/2022	P	6/8/2023	2/22/2025		
MDTA19BMP0018	2023	564300.5317	1418515.4182	13-SF-5501		HT0013M01	E	MSWG	REST	6/15/2023	P	6/8/2023	6/14/2026		
MDTA19BMP0019	2023	565861.1792	1418560.8135	13-SF-5501	06-SF-0026	HT0015A01	S	FSND	REDE	4/29/2021	P	6/9/2023	4/28/2024		
MDTA19BMP0020	2023	565425.4623	1397499.8023	13-SF-5501		HT0015M01	E	MSWG	REST	6/15/2023	P	6/9/2023	6/14/2026		
MDTA19BMP0021	2023	566196.3668	1418581.7574	13-SF-5501	12-SF-0196	HT0016A01	E	MSWB	REST	2/28/2022	P	6/9/2023	2/27/2025		
MDTA19BMP0022	2023	565711.7369	1398002.1993	13-SF-5501	12-SF-0196	HT0016M01	E	MSWB	REST	4/29/2021	P	6/9/2023	4/28/2024		
MDTA19BMP0023	2023	566250.5012	1398741.1755	13-SF-5501		HT0017M01	E	MSWG	REST	6/15/2023	P	6/9/2023	6/14/2026		
MDTA19BMP0024	2023	566832.5522	1418615.3028	13-SF-5501	13-SF-0257	HT0018A01	E	MSWB	REST	2/28/2022	P	6/9/2023	2/27/2025		
MDTA19BMP0025	2023	567918.2842	1418669.3642	13-SF-5501	13-SF-0257	HT0020A01	E	MSWB	REST	2/28/2022	P	6/9/2023	2/27/2025		
MDTA19BMP0026	2023	568584.6849	1418699.0125	13-SF-5501	13-SF-0257	HT0021A01	E	MSWB	REST	2/28/2022	P	6/9/2023	2/27/2025		
MDTA19BMP0027	2023	566794.9904	1400353.2877	13-SF-5501		HT0021M01	E	MSWG	REST	6/15/2023	P	6/9/2023	6/14/2026		
MDTA19BMP0028	2023	567402.0157	1402183.0004	13-SF-5501		HT0025M01	E	MSWG	REST	6/15/2023	P	6/9/2023	6/14/2026		
MDTA19BMP0029	2023	567756.1474	1402695.2452	13-SF-5501	12-SF-0196	HT0026M01	E	MSWB	REST	4/29/2021	P	6/9/2023	4/28/2024		
MDTA19BMP0030	2023	568096.1918	1402988.5070	13-SF-5501	05-SF-0217	HT0027S01	S	FSND	REST	6/15/2023	P	6/9/2023	6/14/2026		
MDTA19BMP0031	2023	568260.9131	1403429.8748	13-SF-5501	12-SF-0196	HT0028M01	E	MSWB	REST	4/29/2021	P	6/9/2023	4/28/2024		
MDTA19BMP0032	2023	568666.3735	1404017.5019	13-SF-5501	12-SF-0196	HT0028M03	E	MSWB	REST	4/29/2021	P	6/9/2023	4/28/2024		
MDTA19BMP0033	2023	569382.0367	1404810.6802	13-SF-5501	12-SF-0196	HT0030M01	E	MSWB	REST	4/29/2021	P	6/9/2023	4/28/2024		
MDTA19BMP0034	2023	569841.6231	1405284.6811	13-SF-5501	12-SF-0196	HT0032M01	E	MSWB	REST	4/29/2021	P	6/9/2023	4/28/2024		
MDTA19BMP0035	2023	570490.0481	1406203.2598	13-SF-5501	12-SF-0196	HT0034M01	E	MSWB	REST	4/29/2021	P	6/9/2023	4/28/2024		
MDTA19BMP0036	2023	570943.0584	1408759.2053	13-SF-5501	12-SF-0196	HT0039M01	E	MSWB	REST	4/29/2021	P	6/9/2023	4/28/2024		
MDTA19BMP0037	2023	570790.9696	1409520.2382	13-SF-5501	12-SF-0196	HT0041M01	E	MSWB	REST	4/29/2021	P	6/12/2023	4/28/2024		
MDTA19BMP0038	2023	570654.0280	1410114.5117	13-SF-5501	12-SF-0196	HT0042M01	E	MSWB	REST	4/29/2021	P	6/12/2023	4/28/2024		
MDTA19BMP0039	2023	570543.4066	1410593.2234	13-SF-5501	12-SF-0196	HT0043M01	E	MSWB	REST	6/15/2023	P	6/12/2023	6/14/2026		
MDTA19BMP0040	2023	570443.2111	1411018.9473	13-SF-5501	12-SF-0196	HT0044M01	E	MSWB	REST	6/15/2023	P	6/12/2023	6/14/2026		
MDTA19BMP0041	2023	570382.4642	1411272.9035	13-SF-5501	12-SF-0196	HT0044M02	E	MSWB	REST	6/15/2023	P	6/12/2023	6/14/2026		
MDTA19BMP0042	2023	570211.1808	1412015.1983	13-SF-5501	12-SF-0196	HT0045M01	E	MSWB	REST	4/29/2021	P	6/12/2023	4/28/2024		
MDTA19BMP0043	2023	570092.2871	1412094.1517	13-SF-5501		HT0046A01	E	MSWG	REST	6/15/2023	P	6/12/2023	6/14/2026		
MDTA19BMP0044	2023	570095.8670	1412513.7656	13-SF-5501	12-SF-0196	HT0046M01	E	MSWB	REST	6/15/2023	P	6/12/2023	6/14/2026		
MDTA19BMP0045	2023	569699.9575	1414217.5474	13-SF-5501	15-SF-0001	HT0050M01	E	MSWG	REST	3/2/2022	P	6/12/2023	3/1/2025		
MDTA19BMP0046	2023	573322.4947	1428352.6786	13-SF-5501	04-SF-0023	HT0080F01	S	FBIO	REST	3/23/2022	P	6/12/2023	3/22/2025		
MDTA19BMP0047	2023	598577.7572	1442207.4927	13-SF-5501		HT0139N01	S	PMED	REDE	4/21/2021	P	6/12/2023	4/20/2024		
MDTA19BMP0048	2023	599317.4605	1442068.3710	13-SF-5501		HT0140S01	S	PMED	REDE	6/5/2023	P	6/12/2023	6/4/2026		
MDTA19BMP0049	2023	602399.9295	1444168.4884	13-SF-5501		HT0147S01	S	PWED	REDE	4/21/2021	P	6/12/2023	4/20/2024		
MDTA19BMP0050	2023	563148.6831	1418685.5407	13-SF-5501	16-SF-0124	HT0B11N01	E	MSWB	REST	6/15/2023	P	6/12/2023	6/14/2026		
MDTA19BMP0051	2023	563152.3787	1418521.9347	13-SF-5501	16-SF-0124	HT0B11S01	E	MSWB	REST	6/15/2023	P	6/12/2023	6/14/2026		
MDTA19BMP0052	2023	533381.4540	1266283.5863	13-SF-5501	08-SF-0102	IC0026A03	S	FSND	NEWD	11/10/2022	P	6/22/2023	11/9/2025		
MDTA19BMP0053	2023	533431.8219	1266161.1080	13-SF-5501	08-SF-0102	IC0026A04	S	XDED	NEWD	11/10/2022	P	6/22/2023	11/9/2025		
MDTA19BMP0054	2023	534865.9541	1264876.6147	13-SF-5501	08-SF-0102	IC0026W01	S	XDED	NEWD	3/6/2023	P	6/22/2023	3/5/2026		
MDTA19BMP0055	2023	535036.1908	1265519.1818	13-SF-5501	08-SF-0102	IC0027E02	S	XDED	NEWD	6/7/2023	P	11/22/2022	6/6/2026		
MDTA19BMP0056	2023	535112.1446	1265450.9423	13-SF-5501	08-SF-0102	IC0027M03	S	XDED	NEWD	6/7/2023	P	11/22/2022	6/6/2026		
MDTA19BMP0057	2023	535548.0575	1268061.0264	13-SF-5501	08-SF-0102	IC0032E03	S	XDED	NEWD	6/7/2023	P	11/22/2022	6/6/2026		
MDTA19BMP0058	2023	535115.3628	1269726.1465	13-SF-5501	08-SF-0102	IC0036W01	S	XDED	NEWD	6/7/2023	P	11/22/2022	6/6/2026		
MDTA19BMP0059	2023	534972.1215	1270101.0485	13-SF-5501	08-SF-0102	IC0037W01	S	XDED	NEWD	6/7/2023	P	11/22/2022	6/6/2026		
MDTA19BMP0060	2023	535010.2260	1271712.2171	13-SF-5501	08-SF-0102	IC0040E01	S	XDED	NEWD	6/24/2022	P	6/22/2023	6/23/2025		
MDTA19BMP0061	2023	535989.6436	1272667.7416	13-SF-5501	08-SF-0102	IC0042E01	S	XDPD	NEWD	11/10/2022	P	6/22/2023	11/9/2025		
MDTA19BMP0062	2023	535270.2963	1275401.6907	13-SF-5501	08-SF-0102	IC0048M01	S	FUND	NEWD	6/7/2023	P	11/22/2022	6/6/2026		
MDTA19BMP0063	2023	535393.7160	1275323.6298	13-SF-5501	08-SF-0102	IC0048W01	S	XDED	NEWD	6/7/2023	P	11/22/2022	6/6/2026		
MDTA19BMP0064	2023	535266.9279	1275520.9030	13-SF-5501	08-SF-0102	IC0048W02	S	FUND	NEWD	10/1/2020	P	11/22/2022	10/1/2023		
MDTA19BMP0065	2023	533972.8957	1276453.0410	13-SF-5501	08-SF-0102	IC0051E02	S	XDPD	NEWD	6/24/2022	P	6/22/2023	6/23/2025		
MDTA19BMP0066	2023	533563.4378	1277347.5936	13-SF-5501	08-SF-0102	IC0053W02	S	XDPD	NEWD	6/24/2022	P	6/22/2023	6/23/2025		
MDTA19BMP0067	2023	531652.1562	1278026.5486	13-SF-5501	08-SF-0102	IC0056E01	S	XDED	NEWD	6/18/2021	P	6/22/2023	6/17/2024		
MDTA19BMP0068	2023	531632.6802	1279421.7723	13-SF-5501	08-SF-0102	IC0059E01	S	FSND	NEWD	10/13/2020	P	6/22/2023	10/13/2023		
MDTA19BMP0069	2023	531626.7546	1279601.6226	13-SF-5501	08-SF-0102	IC0059E05	S	FSND	NEWD	10/9/2020	P	6/22/2023	10/9/2023		
MDTA19BMP0070	2023	531616.8935	1279771.9456	13-SF-5501	08-SF-0102	IC0059E08	S	FSND	NEWD	10/13/2020	P	6/22/2023	10/13/2023		
MDTA19BMP0071	2023	531708.2571	1279536.9928	13-SF-5501	08-SF-0102	IC0059M03	S	FSND	NEWD	11/11/2020	P	6/22/2023	11/11/2023		
MDTA19BMP0072	2023	531699.8074	1279775.8888	13-SF-5501	08-SF-0102	IC0059M04	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023		
MDTA19BMP0073	2023	531796.8162	1279429.9427	13-SF-5501	08-SF-0102	IC0059W03	S	FSND	NEWD	11/10/2022	P	6/22/2023	11/9/2025		
MDTA19BMP0074	2023	531782.4421	1279779.5616	13-SF-5501	08-SF-0102	IC0059W04	S	FSND	NEWD	11/10/2022	P	6/22/2023	11/9/2025		
MDTA19BMP0075	2023	531541.5393	1281593.3517	13-SF-5501	08-SF-0102	IC0063E02	S	FSND	NEWD	10/13/2020	P	6/22/2023	10/13/2023		

MDTA19BMP0076	2023	531624.4257	1281596.9173	13-SF-5501	08-SF-0102	IC0063M02	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0077	2023	531707.3859	1281600.4772	13-SF-5501	08-SF-0102	IC0063W02	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0078	2023	531526.0320	1281968.0337	13-SF-5501	08-SF-0102	IC0064E02	S	FSND	NEWD	10/13/2020	P	6/22/2023	10/13/2023
MDTA19BMP0079	2023	531608.9555	1281971.5901	13-SF-5501	08-SF-0102	IC0064M02	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0080	2023	531697.8913	1281975.3986	13-SF-5501	08-SF-0102	IC0064W02	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0081	2023	531797.3635	1281997.1295	13-SF-5501	08-SF-0102	IC0064W03	S	FSND	NEWD	6/23/2022	P	6/22/2023	6/22/2025
MDTA19BMP0082	2023	531390.2110	1282745.5671	13-SF-5501	08-SF-0102	IC0065E02	S	FSND	NEWD	6/23/2022	P	6/22/2023	6/22/2025
MDTA19BMP0083	2023	531598.0586	1282233.7142	13-SF-5501	08-SF-0102	IC0065M01	S	FSND	NEWD	6/24/2022	P	6/22/2023	6/23/2025
MDTA19BMP0084	2023	531654.0025	1282889.3663	13-SF-5501	08-SF-0102	IC0065W02	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0085	2023	531488.1499	1282882.2501	13-SF-5501	08-SF-0102	IC0066E01	S	FSND	NEWD	11/10/2022	P	6/22/2023	11/9/2025
MDTA19BMP0086	2023	531430.5147	1283178.5864	13-SF-5501	08-SF-0102	IC0066E02	S	XDED	NEWD	10/1/2020	P	11/22/2022	10/1/2023
MDTA19BMP0087	2023	531456.5806	1283218.2794	13-SF-5501	08-SF-0102	IC0066E03	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0088	2023	531571.0782	1282885.8179	13-SF-5501	08-SF-0102	IC0066M04	S	FSND	NEWD	6/21/2023	P	6/22/2023	6/20/2026
MDTA19BMP0089	2023	531622.0835	1283487.1474	13-SF-5501	08-SF-0102	IC0066W02	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0090	2023	531628.8574	1283389.8838	13-SF-5501	08-SF-0102	IC0066W04	S	FSND	NEWD	6/23/2022	P	6/22/2023	6/22/2025
MDTA19BMP0091	2023	531635.6314	1283292.6186	13-SF-5501	08-SF-0102	IC0066W05	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0092	2023	531362.3383	1284169.9955	13-SF-5501	08-SF-0102	IC0068E01	S	FSND	NEWD	6/24/2022	P	6/22/2023	6/23/2025
MDTA19BMP0093	2023	531550.5392	1284117.8024	13-SF-5501	08-SF-0102	IC0068W01	S	FSND	NEWD	6/24/2022	P	6/22/2023	6/23/2025
MDTA19BMP0094	2023	531564.9353	1284016.5199	13-SF-5501	08-SF-0102	IC0068W03	S	FSND	NEWD	4/27/2023	P	6/22/2023	4/26/2026
MDTA19BMP0095	2023	531329.8523	1284876.3805	13-SF-5501	08-SF-0102	IC0069M01	S	FSND	NEWD	6/25/2023	P	6/22/2023	6/24/2026
MDTA19BMP0096	2023	531301.0408	1285001.1996	13-SF-5501	08-SF-0102	IC0069M02	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0097	2023	531414.7275	1284872.7100	13-SF-5501	08-SF-0102	IC0069W01	S	FSND	NEWD	6/17/2022	P	6/22/2023	6/16/2025
MDTA19BMP0098	2023	531395.3926	1284958.3622	13-SF-5501	08-SF-0102	IC0069W02	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0099	2023	531141.1126	1285213.1355	13-SF-5501	08-SF-0102	IC0070E01	S	FSND	NEWD	6/23/2022	P	6/22/2023	6/22/2025
MDTA19BMP0100	2023	531241.1693	1285243.8970	13-SF-5501	08-SF-0102	IC0070M02	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0101	2023	531321.0279	1285264.6156	13-SF-5501	08-SF-0102	IC0070W05	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0102	2023	531038.1531	1285580.7374	13-SF-5501	08-SF-0102	IC0071E01	S	FSND	NEWD	4/14/2023	P	6/22/2023	4/13/2026
MDTA19BMP0103	2023	530865.2449	1286169.8875	13-SF-5501	08-SF-0102	IC0072E03	S	FSND	NEWD	10/13/2020	P	6/22/2023	10/13/2023
MDTA19BMP0104	2023	530943.3420	1286198.0929	13-SF-5501	08-SF-0102	IC0072M02	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0105	2023	531020.8919	1286226.2460	13-SF-5501	08-SF-0102	IC0072W02	S	FSND	NEWD	11/4/2020	P	6/22/2023	11/4/2023
MDTA19BMP0106	2023	530642.9205	1286725.3680	13-SF-5501	08-SF-0102	IC0073E02	S	FSND	NEWD	10/13/2020	P	6/22/2023	10/13/2023
MDTA19BMP0107	2023	530548.9930	1286467.9271	13-SF-5501	08-SF-0102	IC0073E03	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0108	2023	530699.0935	1286804.6189	13-SF-5501	08-SF-0102	IC0073M01	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0109	2023	530283.7345	1287643.0653	13-SF-5501	08-SF-0102	IC0073M03	S	FSND	NEWD	6/25/2023	P	6/22/2023	6/24/2026
MDTA19BMP0110	2023	530754.4967	1286883.2578	13-SF-5501	08-SF-0102	IC0073W02	S	FSND	NEWD	11/4/2020	P	6/22/2023	11/4/2023
MDTA19BMP0111	2023	530200.5755	1287596.5673	13-SF-5501	08-SF-0102	IC0075E02	S	FSND	NEWD	10/13/2020	P	6/22/2023	10/13/2023
MDTA19BMP0112	2023	530196.3855	1287477.3379	13-SF-5501	08-SF-0102	IC0075E03	S	FSND	NEWD	11/10/2022	P	6/22/2023	11/9/2025
MDTA19BMP0113	2023	530088.1349	1287629.2151	13-SF-5501	08-SF-0102	IC0075E04	S	FSND	NEWD	11/10/2022	P	6/22/2023	11/9/2025
MDTA19BMP0114	2023	530342.3813	1287733.0349	13-SF-5501	08-SF-0102	IC0075W02	S	FSND	NEWD	11/4/2020	P	6/22/2023	11/4/2023
MDTA19BMP0115	2023	529889.6104	1288130.0461	13-SF-5501	08-SF-0102	IC0076E02	S	FSND	NEWD	11/10/2022	P	6/22/2023	11/9/2025
MDTA19BMP0116	2023	529685.6694	1288473.5180	13-SF-5501	08-SF-0102	IC0077E03	S	FSND	NEWD	10/13/2020	P	6/22/2023	10/13/2023
MDTA19BMP0117	2023	529473.6124	1288813.5306	13-SF-5501	08-SF-0102	IC0077E04	S	FSND	NEWD	10/13/2020	P	6/22/2023	10/13/2023
MDTA19BMP0118	2023	529767.1509	1288522.5327	13-SF-5501	08-SF-0102	IC0077M02	S	FSND	NEWD	6/24/2023	P	6/22/2023	6/23/2026
MDTA19BMP0119	2023	529858.7655	1288577.6437	13-SF-5501	08-SF-0102	IC0077W02	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0120	2023	529267.4664	1289155.5325	13-SF-5501	08-SF-0102	IC0078E02	S	FSND	NEWD	11/10/2022	P	6/22/2023	11/9/2025
MDTA19BMP0121	2023	529358.7122	1289210.4116	13-SF-5501	08-SF-0102	IC0078M02	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0122	2023	529446.9103	1289263.4676	13-SF-5501	08-SF-0102	IC0078W01	S	FSND	NEWD	11/12/2020	P	6/22/2023	11/12/2023
MDTA19BMP0123	2023	527855.1530	1290638.9839	13-SF-5501		IC0082E01	S	XDPD	NEWD	6/17/2022	P	6/22/2023	6/16/2025
MDTA19BMP0124	2023	527751.0753	1290692.8371	13-SF-5501		IC0082E02	S	FSND	NEWD	6/24/2022	P	6/22/2023	6/23/2025
MDTA19BMP0125	2023	528190.3284	1291246.5877	13-SF-5501	08-SF-0102	IC0082E04	S	FSND	NEWD	3/6/2023	P	6/22/2023	3/5/2026
MDTA19BMP0126	2023	528297.2303	1291472.8620	13-SF-5501	08-SF-0102	IC0083E03	S	XDPD	NEWD	3/6/2023	P	6/22/2023	3/5/2026
MDTA19BMP0127	2023	528871.8909	1291346.5931	13-SF-5501	08-SF-0102	IC0083W04	S	FSND	NEWD	3/7/2023	P	6/22/2023	3/6/2026
MDTA19BMP0128	2023	527467.4261	1294744.6369	13-SF-5501	09-SF-0166	IC0089W01	S	XDED	NEWD	3/7/2023	P	6/22/2023	3/6/2026
MDTA19BMP0129	2023	526582.8065	1294958.8279	13-SF-5501	09-SF-0166	IC0091E01	S	XDED	NEWD	10/1/2020	P	11/22/2022	10/1/2023
MDTA19BMP0130	2023	526602.7553	1294941.6282	13-SF-5501	09-SF-0166	IC0091E01A	S	FUND	NEWD	6/7/2023	P	11/22/2022	6/6/2026
MDTA19BMP0131	2023	526400.6748	1295543.0582	13-SF-5501	09-SF-0166	IC0092W01	S	FUND	NEWD	10/1/2020	P	11/22/2022	10/1/2023
MDTA19BMP0132	2023	526400.6748	1295543.0582	13-SF-5501	09-SF-0166	IC0092W01A	S	FUND	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0133	2023	524057.4623	1297437.0962	13-SF-5501	09-SF-0166	IC0097E01	S	XDED	NEWD	3/7/2023	P	6/22/2023	3/6/2026
MDTA19BMP0134	2023	521368.5028	1301157.5882	13-SF-5501	09-SF-0166	IC0106E01	S	FUND	NEWD	6/7/2023	P	11/22/2022	6/6/2026
MDTA19BMP0135	2023	521383.2884	1301112.8574	13-SF-5501	09-SF-0166	IC0106E01A	S	FUND	NEWD	6/7/2023	P	11/22/2022	6/6/2026
MDTA19BMP0136	2023	521255.3916	1301054.1155	13-SF-5501	09-SF-0166	IC0106E02	S	XDED	NEWD	6/17/2022	P	6/23/2023	6/16/2025
MDTA19BMP0137	2023	521860.9542	1300955.1305	13-SF-5501	09-SF-0166	IC0106W01	S	XDED	NEWD	6/17/2022	P	6/23/2023	6/16/2025
MDTA19BMP0138	2023	521217.2268	1302467.5631	13-SF-5501	09-SF-0166	IC0108W01	S	XDED	NEWD	6/17/2022	P	6/23/2023	6/16/2025
MDTA19BMP0139	2023	521107.5918	1302431.6997	13-SF-5501	09-SF-0166	IC0109W01	S	XDED	NEWD	10/1/2020	P	11/22/2022	10/1/2023
MDTA19BMP0140	2023	521058.8111	1302542.9883	13-SF-5501	09-SF-0166	IC0109W01A	S	FUND	NEWD	6/7/2023	P	11/22/2022	6/6/2026
MDTA19BMP0141	2023	520291.9583	1303389.9810	13-SF-5501	09-SF-0166	IC0111E01	S	FUND	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0142	2023	520338.0580	1303338.9599	13-SF-5501	09-SF-0166	IC0111E01A	S	FUND	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0143	2023	519294.1680	1304094.8466	13-SF-5501	09-SF-0166	IC0113E01	S	FUND	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0144	2023	519338.6348	1304077.6172	13-SF-5501	09-SF-0166	IC0113E01A	S	FUND	NEWD	10/1/2020	P	11/22/2022	10/1/2023
MDTA19BMP0145	2023	518231.4677	1304488.8717	13-SF-5501	09-SF-0166	IC0116W01	S	XDED	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0146	2023	517894.7206	1304575.2156	13-SF-5501	09-SF-0166	IC0116W02	S	XDED	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0147	2023	517244.5118	1305036.6317	13-SF-5501	09-SF-0166	IC0118W01	S	FUND	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0148	2023	517314.1156	1304955.3229	13-SF-5501	09-SF-0166	IC0118W01A	S	FUND	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0149	2023	516964.6525	1306528.6724	13-SF-5501	09-SF-0166	IC0121W01	S	FUND	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0150	2023	516976.0226	1306573.3635	13-SF-5501	09-SF-0166	IC0121W01A	S	FUND	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0151	2023	517204.1187	1307011.2126	13-SF-5501	09-SF-0166	IC0121W02	S	XDED	NEWD	3/7/2023	P	6/23/2023	3/6/2026
MDTA19BMP0152	2023	517530.3955	1310240.4764	13-SF-5501	09-SF-0166	IC0128E01	S	ITRN	NEWD	4/14/2023	P	6/23/2023	4/13/2026
MDTA19BMP0153	2023	517612.0864	1310233.8496	13-SF-5501	09-SF-0166	IC0128M01	S	ITRN	NEWD	11/12/2020	P	6/23/2023	11/12/2023

MDTA19BMP0154	2023	517587.9512	1310950.3192	13-SF-5501	09-SF-0166	IC0129E02	S	ITRN	NEWD	4/14/2023	P	6/23/2023	4/13/2026
MDTA19BMP0155	2023	517677.3362	1310943.2830	13-SF-5501	09-SF-0166	IC0129M02	S	ITRN	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0156	2023	517608.5407	1312107.6522	13-SF-5501	09-SF-0166	IC0131E01	S	FUND	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0157	2023	517623.5198	1312046.6127	13-SF-5501	09-SF-0166	IC0131E01A	S	FUND	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0158	2023	517867.9322	1312104.5390	13-SF-5501	09-SF-0166	IC0131W01	S	FUND	NEWD	10/1/2020	P	11/22/2022	10/1/2023
MDTA19BMP0159	2023	517867.9322	1312104.5390	13-SF-5501	09-SF-0166	IC0131W01A	S	FUND	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0160	2023	517688.5653	1312995.4413	13-SF-5501	09-SF-0166	IC0133E03	S	ITRN	NEWD	4/14/2023	P	6/23/2023	4/13/2026
MDTA19BMP0161	2023	517897.6206	1312855.9458	13-SF-5501	09-SF-0166	IC0133W01	S	ITRN	NEWD	11/4/2020	P	6/23/2023	11/4/2023
MDTA19BMP0162	2023	518012.6775	1312966.6713	13-SF-5501	09-SF-0166	IC0133W04	S	ITRN	NEWD	4/27/2023	P	6/23/2023	4/26/2026
MDTA19BMP0163	2023	518016.7667	1314463.9502	13-SF-5501	09-SF-0166	IC0137E01	S	FSND	NEWD	10/13/2020	P	6/23/2023	10/13/2023
MDTA19BMP0164	2023	518095.0309	1314416.6609	13-SF-5501	09-SF-0166	IC0137M01	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0165	2023	518148.0198	1314721.9432	13-SF-5501	09-SF-0166	IC0137M02	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0166	2023	518176.6508	1314407.8610	13-SF-5501	09-SF-0166	IC0137W01	S	FSND	NEWD	3/7/2023	P	6/23/2023	3/6/2026
MDTA19BMP0167	2023	518316.6257	1315536.0747	13-SF-5501	09-SF-0166	IC0138W01	S	XDED	NEWD	10/1/2020	P	11/22/2022	10/1/2023
MDTA19BMP0168	2023	518157.1211	1315757.3076	13-SF-5501	09-SF-0166	IC0139E02	S	FSND	NEWD	10/13/2020	P	6/23/2023	10/13/2023
MDTA19BMP0169	2023	518234.0206	1315717.9013	13-SF-5501	09-SF-0166	IC0139M01	S	FSND	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0170	2023	518302.1052	1315882.4109	13-SF-5501	09-SF-0166	IC0139W02	S	FSND	NEWD	3/7/2023	P	6/23/2023	3/6/2026
MDTA19BMP0171	2023	518340.3425	1315721.5762	13-SF-5501	09-SF-0166	IC0139W03	S	ITRN	NEWD	6/23/2022	P	6/23/2023	6/22/2025
MDTA19BMP0172	2023	518104.3353	1316212.0637	13-SF-5501	09-SF-0166	IC0140E05	S	FSND	NEWD	10/13/2020	P	6/23/2023	10/13/2023
MDTA19BMP0173	2023	518178.8119	1316225.9427	13-SF-5501	09-SF-0166	IC0140M01	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0174	2023	518231.1697	1316363.9054	13-SF-5501	09-SF-0166	IC0140W02	S	ITRN	NEWD	5/1/2023	P	6/23/2023	4/30/2026
MDTA19BMP0175	2023	518202.6082	1316490.8178	13-SF-5501	09-SF-0166	IC0140W03	S	FSND	NEWD	11/4/2020	P	6/23/2023	11/4/2023
MDTA19BMP0176	2023	517942.9629	1316834.5667	13-SF-5501	09-SF-0166	IC0141E05	S	ITRN	NEWD	4/14/2023	P	6/23/2023	4/13/2026
MDTA19BMP0177	2023	517821.3046	1317132.3883	13-SF-5501	09-SF-0166	IC0141E06	S	ITRN	NEWD	10/13/2020	P	6/23/2023	10/13/2023
MDTA19BMP0178	2023	518019.6827	1316593.7951	13-SF-5501	09-SF-0166	IC0141E09	S	FSND	NEWD	10/13/2020	P	6/23/2023	10/13/2023
MDTA19BMP0179	2023	517915.8872	1316907.2425	13-SF-5501	09-SF-0166	IC0141E10	S	FSND	NEWD	10/13/2020	P	6/23/2023	10/13/2023
MDTA19BMP0180	2023	518012.9725	1316863.9573	13-SF-5501	09-SF-0166	IC0141M05	S	ITRN	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0181	2023	518087.8680	1316630.4968	13-SF-5501	09-SF-0166	IC0141M10	S	FSND	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0182	2023	517986.7186	1316934.2645	13-SF-5501	09-SF-0166	IC0141M11	S	FSND	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0183	2023	518082.1733	1316890.7448	13-SF-5501	09-SF-0166	IC0141W05	S	ITRN	NEWD	5/1/2023	P	6/23/2023	4/30/2026
MDTA19BMP0184	2023	518055.9612	1316960.9214	13-SF-5501	09-SF-0166	IC0141W07	S	FSND	NEWD	11/4/2020	P	6/23/2023	11/4/2023
MDTA19BMP0185	2023	517622.0695	1317516.0102	13-SF-5501	09-SF-0166	IC0142E01	S	ITRN	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0186	2023	517561.5748	1317626.5377	13-SF-5501	09-SF-0166	IC0142E02	S	FSND	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0187	2023	517779.4165	1317220.5330	13-SF-5501	09-SF-0166	IC0142E04	S	FSND	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0188	2023	517704.0050	1317365.8607	13-SF-5501	09-SF-0166	IC0142E05	S	FSND	NEWD	3/7/2023	P	6/23/2023	3/6/2026
MDTA19BMP0189	2023	517672.0194	1317580.9605	13-SF-5501	09-SF-0166	IC0142M01	S	ITRN	NEWD	6/23/2022	P	6/23/2023	6/22/2025
MDTA19BMP0190	2023	517862.3479	1317223.5970	13-SF-5501	09-SF-0166	IC0142M02	S	ITRN	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0191	2023	517790.0885	1317366.2347	13-SF-5501	09-SF-0166	IC0142M03	S	ITRN	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0192	2023	517834.7932	1317279.7626	13-SF-5501	09-SF-0166	IC0142M04	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0193	2023	517731.0078	1317473.5971	13-SF-5501	09-SF-0166	IC0142M06	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0194	2023	517627.6085	1317662.1019	13-SF-5501	09-SF-0166	IC0142M07	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0195	2023	517888.4584	1317338.0070	13-SF-5501	09-SF-0166	IC0142W01	S	ITRN	NEWD	5/1/2023	P	6/23/2023	4/30/2026
MDTA19BMP0196	2023	517845.4196	1317419.9188	13-SF-5501	09-SF-0166	IC0142W04	S	FSND	NEWD	11/4/2020	P	6/23/2023	11/4/2023
MDTA19BMP0197	2023	517510.1112	1317720.5650	13-SF-5501	09-SF-0166	IC0143E01	S	ITRN	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0198	2023	517441.6945	1317845.5668	13-SF-5501	09-SF-0166	IC0143E08	S	FSND	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0199	2023	517573.5179	1317760.9289	13-SF-5501	09-SF-0166	IC0143M01	S	ITRN	NEWD	6/23/2022	P	6/23/2023	6/22/2025
MDTA19BMP0200	2023	517503.9010	1317888.1233	13-SF-5501	09-SF-0166	IC0143M06	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0201	2023	517658.2317	1317762.3634	13-SF-5501	09-SF-0166	IC0143W01	S	ITRN	NEWD	5/1/2023	P	6/23/2023	4/30/2026
MDTA19BMP0202	2023	517586.2141	1317893.9441	13-SF-5501	09-SF-0166	IC0143W02	S	FSND	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0203	2023	517252.0611	1318192.0388	13-SF-5501	09-SF-0166	IC0144E01	S	ITRN	NEWD	4/14/2023	P	6/23/2023	4/13/2026
MDTA19BMP0204	2023	517379.0703	1318116.1967	13-SF-5501	09-SF-0166	IC0144M01	S	ITRN	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0205	2023	517219.3080	1318564.3042	13-SF-5501	09-SF-0166	IC0144W06	S	ITRN	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0206	2023	517418.0135	1318201.2567	13-SF-5501	09-SF-0166	IC0144W07	S	FSND	NEWD	5/1/2023	P	6/23/2023	4/30/2026
MDTA19BMP0207	2023	516834.9195	1318960.0048	13-SF-5501	09-SF-0166	IC0145E05	S	ITRN	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0208	2023	517120.3503	1318415.4170	13-SF-5501	09-SF-0166	IC0145E06	S	FSND	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0209	2023	516949.5356	1318735.4148	13-SF-5501	09-SF-0166	IC0145E07	S	FSND	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0210	2023	516996.3710	1318816.5090	13-SF-5501	09-SF-0166	IC0145M04	S	ITRN	NEWD	6/23/2022	P	6/23/2023	6/22/2025
MDTA19BMP0211	2023	517223.0327	1318401.2870	13-SF-5501	09-SF-0166	IC0145M05	S	FSND	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0212	2023	516936.2862	1318928.9749	13-SF-5501	09-SF-0166	IC0145M06	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0213	2023	517079.7741	1318819.8925	13-SF-5501	09-SF-0166	IC0145W01	S	ITRN	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0214	2023	517176.0975	1318643.2527	13-SF-5501	09-SF-0166	IC0145W04	S	FSND	NEWD	5/1/2023	P	6/23/2023	4/30/2026
MDTA19BMP0215	2023	517007.7828	1318954.3520	13-SF-5501	09-SF-0166	IC0145W05	S	FSND	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0216	2023	516674.4485	1319270.0972	13-SF-5501	09-SF-0166	IC0146E02	S	ITRN	NEWD	4/14/2023	P	6/23/2023	4/13/2026
MDTA19BMP0217	2023	516776.0485	1319072.9531	13-SF-5501	09-SF-0166	IC0146E03	S	FSND	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0218	2023	516646.2794	1319325.7687	13-SF-5501	09-SF-0166	IC0146E04	S	FSND	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0219	2023	516764.5896	1319258.4360	13-SF-5501	09-SF-0166	IC0146M01	S	ITRN	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0220	2023	516719.0446	1319347.4626	13-SF-5501	09-SF-0166	IC0146M02	S	FSND	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0221	2023	516692.9697	1319399.0840	13-SF-5501	09-SF-0166	IC0146M03	S	FSND	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0222	2023	516856.4277	1319159.3656	13-SF-5501	09-SF-0166	IC0146M04	S	XDED	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0223	2023	516841.0405	1319295.7120	13-SF-5501	09-SF-0166	IC0146W01	S	FSND	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0224	2023	516782.2049	1319403.4257	13-SF-5501	09-SF-0166	IC0146W02	S	FSND	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0225	2023	516815.8074	1319324.3897	13-SF-5501	09-SF-0166	IC0146W03	S	XDED	NEWD	6/29/2022	P	11/22/2022	6/28/2025
MDTA19BMP0226	2023	516841.7962	1319273.1504	13-SF-5501	09-SF-0166	IC0146W04	S	FUND	NEWD	10/1/2020	P	11/22/2022	10/1/2023
MDTA19BMP0227	2023	516852.2377	1319252.4437	13-SF-5501	09-SF-0166	IC0146W05	S	FUND	NEWD	10/1/2020	P	11/22/2022	10/1/2023
MDTA19BMP0228	2023	515930.2393	1320811.8410	13-SF-5501	09-SF-0166	IC0149E01	S	FSND	NEWD	4/14/2023	P	6/23/2023	4/13/2026
MDTA19BMP0229	2023	515906.7988	1320873.3777	13-SF-5501	09-SF-0166	IC0149E02	S	FSND	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0230	2023	515843.2670	1321081.6813	13-SF-5501	09-SF-0166	IC0149E03	S	FSND	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0231	2023	516036.9637	1320839.1820	13-SF-5501	09-SF-0166	IC0149M01	S	FUND	NEWD	6/29/2022	F	11/22/2022	6/28/2025

MDTA19BMP0232	2023	516008.2611	1320920.8839	13-SF-5501	09-SF-0166	IC0149M02	S	XDED	NEWD	6/29/2022	F	11/22/2022	6/28/2025
MDTA19BMP0233	2023	516105.8132	1320796.6985	13-SF-5501	09-SF-0166	IC0149W01	S	FSND	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0234	2023	516063.8281	1320911.1594	13-SF-5501	09-SF-0166	IC0149W02	S	FSND	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0235	2023	515882.8294	1321283.1078	13-SF-5501	09-SF-0166	IC0150M01	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0236	2023	515951.5772	1321331.9023	13-SF-5501	09-SF-0166	IC0150W01	S	FSND	NEWD	4/27/2023	P	6/23/2023	4/26/2026
MDTA19BMP0237	2023	515796.7572	1322012.4739	13-SF-5501	09-SF-0166	IC0151E01	S	FSND	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0238	2023	515848.7271	1321601.8036	13-SF-5501	09-SF-0166	IC0151M01	S	ITRN	NEWD	4/28/2022	P	6/23/2023	4/27/2025
MDTA19BMP0239	2023	515867.1839	1321943.2784	13-SF-5501	09-SF-0166	IC0151M08	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0240	2023	515925.0161	1321625.6242	13-SF-5501	09-SF-0166	IC0151W01	S	ITRN	NEWD	4/27/2023	P	6/23/2023	4/26/2026
MDTA19BMP0241	2023	515968.5905	1322001.3910	13-SF-5501	09-SF-0166	IC0151W08	S	ITRN	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0242	2023	515947.0850	1321890.3032	13-SF-5501	09-SF-0166	IC0151W09	S	FSND	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0243	2023	515813.2701	1322274.3803	13-SF-5501	09-SF-0166	IC0152E02	S	ITRN	NEWD	4/14/2023	P	6/23/2023	4/13/2026
MDTA19BMP0244	2023	515879.2615	1322115.3560	13-SF-5501	09-SF-0166	IC0152M01	S	ITRN	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0245	2023	515939.4210	1322717.6875	13-SF-5501	09-SF-0166	IC0152W02	S	FSND	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0246	2023	515752.9577	1322794.3355	13-SF-5501	09-SF-0166	IC0153E01	S	FSND	NEWD	4/14/2023	P	6/23/2023	4/13/2026
MDTA19BMP0247	2023	515828.9085	1322825.0406	13-SF-5501	09-SF-0166	IC0153M01	S	ITRN	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0248	2023	515857.1422	1322693.4287	13-SF-5501	09-SF-0166	IC0153M04	S	FSND	NEWD	6/25/2023	P	6/23/2023	6/24/2026
MDTA19BMP0249	2023	515770.4487	1323006.2950	13-SF-5501	09-SF-0166	IC0153M05	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0250	2023	515675.4335	1323043.3636	13-SF-5501	09-SF-0166	IC0154E01	S	ITRN	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0251	2023	515437.9919	1323491.4285	13-SF-5501	09-SF-0166	IC0154E08	S	FSND	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0252	2023	515519.1816	1323518.8857	13-SF-5501	09-SF-0166	IC0154M01	S	ITRN	NEWD	6/24/2023	P	6/23/2023	6/23/2026
MDTA19BMP0253	2023	515721.2596	1323131.5956	13-SF-5501	09-SF-0166	IC0154M03	S	ITRN	NEWD	6/24/2023	P	6/23/2023	6/23/2026
MDTA19BMP0254	2023	515597.1661	1323385.8695	13-SF-5501	09-SF-0166	IC0154M05	S	ITRN	NEWD	4/28/2022	P	6/23/2023	4/27/2025
MDTA19BMP0255	2023	515546.2028	1323474.5427	13-SF-5501	09-SF-0166	IC0154M08	S	FSND	NEWD	6/24/2023	P	6/23/2023	6/23/2026
MDTA19BMP0256	2023	515655.0278	1323273.5659	13-SF-5501	09-SF-0166	IC0154M09	S	FSND	NEWD	6/24/2023	P	6/23/2023	6/23/2026
MDTA19BMP0257	2023	515603.2061	1323561.2612	13-SF-5501	09-SF-0166	IC0154W02	S	ITRN	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0258	2023	515627.9623	1323519.2151	13-SF-5501	09-SF-0166	IC0154W03	S	FSND	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0259	2023	515374.0960	1323588.4477	13-SF-5501	09-SF-0166	IC0155E01	S	ITRN	NEWD	4/14/2023	P	6/23/2023	4/13/2026
MDTA19BMP0260	2023	515140.5062	1323896.5626	13-SF-5501	09-SF-0166	IC0155E04	S	FSND	NEWD	11/3/2020	P	6/23/2023	11/3/2023
MDTA19BMP0261	2023	515256.4538	1323739.7198	13-SF-5501	09-SF-0166	IC0155E05	S	FSND	NEWD	4/14/2023	P	6/23/2023	4/13/2026
MDTA19BMP0262	2023	515283.2431	1323858.0771	13-SF-5501	09-SF-0166	IC0155M06	S	ITRN	NEWD	4/28/2022	P	6/23/2023	4/27/2025
MDTA19BMP0263	2023	515216.5544	1323951.8590	13-SF-5501	09-SF-0166	IC0155M07	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0264	2023	515347.1179	1323768.5354	13-SF-5501	09-SF-0166	IC0155M08	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0265	2023	515305.4303	1324011.7157	13-SF-5501	09-SF-0166	IC0155W01	S	FSND	NEWD	11/6/2020	P	6/23/2023	11/6/2023
MDTA19BMP0266	2023	515538.2869	1323662.0350	13-SF-5501	09-SF-0166	IC0155W02	S	FSND	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0267	2023	512850.2410	1324907.0697	13-SF-5501	08-SF-0231	IC0159E01	S	PWED	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0268	2023	513919.1537	1325410.6880	13-SF-5501	08-SF-0231	IC0159E02	S	PMED	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0269	2023	514554.1038	1325390.0778	13-SF-5501	08-SF-0231	IC0159W01	S	PMED	NEWD	6/13/2022	P	6/23/2023	6/12/2025
MDTA19BMP0270	2023	513448.0209	1325929.8024	13-SF-5501	08-SF-0231	IC0161E01	S	PWED	NEWD	3/9/2023	P	6/23/2023	3/8/2026
MDTA19BMP0271	2023	512457.0264	1328337.6426	13-SF-5501	08-SF-0231	IC0165E01	S	PMED	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0272	2023	512631.4829	1330715.8774	13-SF-5501	08-SF-0231	IC0170W01	S	PWED	NEWD	3/9/2023	P	6/23/2023	3/8/2026
MDTA19BMP0273	2023	512554.2936	1331834.1614	13-SF-5501	08-SF-0231	IC0172W01	S	PWET	NEWD	6/13/2022	P	6/23/2023	6/12/2025
MDTA19BMP0274	2023	512371.7977	1338565.6123	13-SF-5501	08-SF-0231	IC0185E01	S	PMED	NEWD	3/9/2023	P	6/23/2023	3/8/2026
MDTA19BMP0275	2023	511909.1448	1338608.4321	13-SF-5501	08-SF-0231	IC0185E02	S	PMED	NEWD	3/9/2023	P	6/23/2023	3/8/2026
MDTA19BMP0276	2023	513122.0587	1338862.3700	13-SF-5501	08-SF-0231	IC0185W01	S	PMED	NEWD	3/9/2023	P	6/23/2023	3/8/2026
MDTA19BMP0277	2023	513518.3281	1339367.3464	13-SF-5501	08-SF-0231	IC0185W03	S	PMED	NEWD	11/12/2020	P	6/23/2023	11/12/2023
MDTA19BMP0278	2023	512363.6844	1339591.5137	13-SF-5501	08-SF-0231	IC0186W01	S	PWET	NEWD	10/23/2020	P	6/23/2023	10/23/2023
MDTA19BMP0279	2023	509879.5867	1341085.8162	13-SF-5501	08-SF-0231	IC0191E01	S	PMED	NEWD	3/9/2023	P	6/23/2023	3/8/2026
MDTA19BMP0280	2023	510106.9779	1343340.8714	13-SF-5501		IC0195E01	E	MSWB	NEWD	4/20/2021	P	6/23/2023	4/19/2024
MDTA19BMP0281	2023	510260.0342	1343351.4253	13-SF-5501		IC0195W01	E	MSWB	NEWD	6/18/2021	P	6/23/2023	6/17/2024
MDTA19BMP0282	2023	510471.7695	1343829.8387	13-SF-5501		IC0196A01	E	MSWB	NEWD	4/6/2021	P	6/23/2023	4/5/2024
MDTA19BMP0283	2023	509110.6194	1343327.4153	13-SF-5501		IC0196S01	E	MSWB	NEWD	4/6/2021	P	6/23/2023	4/5/2024
MDTA19BMP0284	2023	510082.1127	1344015.6167	13-SF-5501		IC0197A01	S	FBIO	NEWD	4/20/2021	P	6/23/2023	4/19/2024
MDTA19BMP0285	2023	510042.1509	1344155.3309	13-SF-5501	12-SF-0285	IC0197A02	S	XDPD	NEWD	4/20/2021	P	6/23/2023	4/19/2024
MDTA19BMP0286	2023	509944.3193	1344094.5404	13-SF-5501		IC0197A03	E	MSWB	NEWD	4/6/2021	P	6/23/2023	4/5/2024
MDTA19BMP0287	2023	510138.1127	1344492.4061	13-SF-5501		IC0197A04	E	MSWB	NEWD	4/6/2021	P	6/23/2023	4/5/2024
MDTA19BMP0288	2023	510251.6023	1344386.1089	13-SF-5501		IC0197M01	E	MSWB	NEWD	6/18/2021	P	6/23/2023	6/17/2024
MDTA19BMP0289	2023	509569.2872	1343675.5092	13-SF-5501		IC0197N01	E	MSWB	NEWD	4/6/2021	P	6/23/2023	4/5/2024
MDTA19BMP0290	2023	510795.7496	1344116.0318	13-SF-5501		IC0197N02	E	MSWB	NEWD	4/6/2021	P	6/23/2023	4/5/2024
MDTA19BMP0291	2023	510352.9341	1344351.6779	13-SF-5501		IC0197W01	E	MSWB	NEWD	6/18/2021	P	6/23/2023	6/17/2024
MDTA19BMP0292	2023	510177.9395	1344551.9771	13-SF-5501		IC0198A01	E	MSWB	NEWD	4/6/2021	P	6/23/2023	4/5/2024
MDTA19BMP0293	2023	510043.4213	1345230.2699	13-SF-5501	12-SF-0285	IC0199W01	E	MSWB	NEWD	4/20/2021	P	6/23/2023	4/19/2024
MDTA19BMP0294	2023	510085.2402	1345959.4413	13-SF-5501	10-SF-0115	IC0200F01	S	PWED	NEWD	6/24/2022	P	6/23/2023	6/23/2025
MDTA19BMP0295	2023	509856.8477	1345558.5919	13-SF-5501	12-SF-0285	IC0200W01	E	MSWB	NEWD	4/20/2021	P	6/23/2023	4/19/2024
MDTA19BMP0296	2023	509661.3462	1345793.7290	13-SF-5501	12-SF-0285	IC0200W02	E	MSWB	NEWD	4/20/2021	P	6/23/2023	4/19/2024
MDTA19BMP0297	2023	561030.6481	1428852.5610	13-SF-5501	13-SF-0257	KB0004M01	E	MSWB	REST	3/24/2022	P	6/15/2023	3/23/2025
MDTA19BMP0298	2023	560935.8122	1428211.4757	13-SF-5501	13-SF-0257	KB0005M01	E	MSWB	REST	3/24/2022	P	6/15/2023	3/23/2025
MDTA19BMP0299	2023	561071.2059	1425884.4129	13-SF-5501	13-SF-0257	KB0010M01	E	MSWB	REST	3/24/2022	P	6/15/2023	3/23/2025
MDTA19BMP0300	2023	561120.4571	1425041.5349	13-SF-5501	13-SF-0257	KB0012M01	E	MSWB	REST	3/24/2022	P	6/15/2023	3/23/2025
MDTA19BMP0301	2023	572893.5220	1456851.7884	13-SF-5501	95-SF-0346	KB0455S01	S	PWET	REST	4/6/2021	P	6/15/2023	4/5/2024
MDTA19BMP0302	2023	572241.7298	1451443.4651	13-SF-5501	05-SF-0019	KB0464A01	S	FPER	REST	4/13/2023	P	6/15/2023	4/12/2026
MDTA19BMP0303	2023	574364.4168	1450287.2447	13-SF-5501	05-SF-0019	KB0464A02	S	FPER	REST	4/13/2023	P	6/15/2023	4/12/2026
MDTA19BMP0305	2023	570543.6329	1452399.1567	13-SF-5501	13-SF-0257	KB0465F01	S	FBIO	REST	4/27/2022	P	6/15/2023	4/26/2025
MDTA19BMP0306	2023	569931.6837	1451073.2637	13-SF-5501	04-SF-0299	KB0467F01	S	FBIO	REST	6/28/2023	P	6/15/2023	6/27/2026
MDTA19BMP0307	2023	569519.9201	1451018.9699	13-SF-5501	13-SF-0257	KB0468E01	S	FBIO	REST	6/28/2023	P	6/15/2023	6/27/2026
MDTA19BMP0308	2023	569230.2806	1450276.1949	13-SF-5501	11-SF-0320	KB0469A01	E	MSWB	REDE	4/27/2022	P	6/15/2023	4/26/2025
MDTA19BMP0309	2023	569010.7243	1450040.0615	13-SF-5501	11-SF-0320	KB0470A01	E	MSWB	REDE	6/28/2022	P	6/15/2023	6/27/2025
MDTA19BMP0310	2023	569988.9072	1451172.7977	13-SF-5501	14-SF-0047	KB0470F01	S	ODSW	REST	6/28/2023	P	6/15/2023	6/27/2026

MDTA19BMP0311	2023	568397.0472	1449326.6825	13-SF-5501	11-SF-0320	KB0472A01	E	MSWB	REDE	4/27/2022	P	6/15/2023	4/26/2025	
MDTA19BMP0312	2023	568212.9250	1449299.4064	13-SF-5501	11-SF-0320	KB0472A02	E	MSWB	REDE	4/27/2022	P	6/15/2023	4/26/2025	
MDTA19BMP0313	2023	567224.1329	1448322.1961	13-SF-5501	06-SF-0062	KB0475A01	S	FBIO	REDE	6/28/2023	P	6/15/2023	6/27/2026	
MDTA19BMP0314	2023	561044.3903	1440839.7299	13-SF-5501	15-SF-0036	KB0493M01	E	MSWB	REDE	3/24/2022	P	6/15/2023	3/23/2025	
MDTA19BMP0315	2023	560298.8673	1439790.2326	13-SF-5501		KB0496M01	E	MSWG	REST	6/28/2023	P	6/15/2023	6/27/2026	
MDTA19BMP0316	2023	560084.6013	1437267.3573	13-SF-5501	06-SF-0005	KB0501E01	S	PWET	REDE	6/28/2023	P	6/15/2023	6/27/2026	
MDTA19BMP0317	2023	560750.0356	1436397.1147	13-SF-5501		KB0503A01	E	MSWG	REST	6/28/2023	P	6/15/2023	6/27/2026	
MDTA19BMP0318	2023	560643.0744	1436192.3203	13-SF-5501	13-SF-0257	KB0503W01	E	MSWB	REST	6/28/2022	P	6/15/2023	6/27/2025	
MDTA19BMP0319	2023	560635.5016	1436387.5118	13-SF-5501	13-SF-0257	KB0503W02	E	MSWB	REST	6/28/2022	P	6/15/2023	6/27/2025	
MDTA19BMP0320	2023	560633.6985	1434968.2652	13-SF-5501	13-SF-0257	KB0505M01	E	MSWB	REST	3/24/2022	P	6/15/2023	3/23/2025	
MDTA19BMP0321	2023	607608.7685	1448261.4122	13-SF-5501		KH0620S01	S	PWED	REDE	4/21/2021	P	6/1/2023	4/20/2024	
MDTA19BMP0322	2023	609869.3953	1449991.3332	13-SF-5501	08-SF-0009	KH0626N01	S	PWED	REDE	5/22/2023	P	6/1/2023	5/21/2026	
MDTA19BMP0323	2023	611611.5858	1450611.4864	13-SF-5501	07-SF-0135	KH0629S01	S	PMED	REDE	5/19/2022	P	6/1/2023	5/18/2025	
MDTA19BMP0324	2023	611833.1519	1450919.0475	13-SF-5501	07-SF-0135	KH0630S01	S	PMED	REDE	5/10/2022	P	6/1/2023	5/9/2025	
MDTA19BMP0325	2023	612661.3541	1452127.9522	13-SF-5501	07-SF-0135	KH0633S01	S	PMED	REDE	5/10/2022	P	6/1/2023	5/9/2025	
MDTA19BMP0326	2023	613391.2238	1454191.7038	13-SF-5501		KH0636S01	S	PMED	REDE	5/11/2022	P	6/1/2023	5/10/2025	
MDTA19BMP0327	2023	613129.7541	1454516.9081	13-SF-5501	07-SF-0135	KH0637N01	S	PMED	REDE	5/22/2023	P	6/1/2023	5/21/2026	
MDTA19BMP0328	2023	614017.1433	1454074.1286	13-SF-5501		KH0637S01	S	PMED	REDE	5/10/2022	P	6/1/2023	5/9/2025	
MDTA19BMP0329	2023	612385.0308	1455139.5117	13-SF-5501	14-SF-0002	KH0637S02	S	PWED	REDE	4/21/2021	P	6/1/2023	4/20/2024	
MDTA19BMP0330	2023	613694.3331	1455380.6873	13-SF-5501	07-SF-0135	KH0639N01	S	PMED	REDE	6/3/2022	P	6/1/2023	6/2/2025	
MDTA19BMP0331	2023	613981.3180	1455767.4222	13-SF-5501	07-SF-0135	KH0640N01	S	PMED	NEWD	5/22/2023	P	6/1/2023	5/21/2026	
MDTA19BMP0332	2023	614736.2243	1456551.6850	13-SF-5501		KH0642N01	S	PMED	REDE	6/3/2022	P	6/1/2023	6/2/2025	
MDTA19BMP0333	2023	617419.6143	1459525.8595	13-SF-5501		KH0649S01	S	PWED	REDE	3/5/2021	P	6/1/2023	3/4/2024	
MDTA19BMP0334	2023	618272.0104	1460611.9628	13-SF-5501		KH0652S01	S	PWED	REDE	3/5/2021	P	6/1/2023	3/4/2024	
MDTA19BMP0335	2023	618756.2774	1462274.2590	13-SF-5501		KH0655N01	S	PMED	REDE	5/22/2023	P	6/1/2023	5/21/2026	
MDTA19BMP0336	2023	619865.6498	1463699.4060	13-SF-5501		KH0658N01	S	XDED	REDE	5/22/2023	P	6/1/2023	5/21/2026	
MDTA19BMP0337	2023	621153.8044	1466013.4859	13-SF-5501		KH0663N01	S	FSND	REDE	5/22/2023	P	6/1/2023	5/21/2026	
MDTA19BMP0338	2023	622478.0945	1467142.3162	13-SF-5501		KH0667N01	S	PMED	REDE	5/19/2022	P	6/1/2023	5/18/2025	
MDTA19BMP0339	2023	623689.3294	1467383.8353	13-SF-5501		KH0668S01	S	PMED	REDE	6/3/2022	P	6/1/2023	6/2/2025	
MDTA19BMP0340	2023	623706.6657	1468099.8621	13-SF-5501		KH0669N01	S	PWED	REDE	5/11/2022	P	6/1/2023	5/10/2025	
MDTA19BMP0341	2023	624298.6710	1468902.6973	13-SF-5501		KH0671N01	S	PWED	REDE	5/11/2022	P	6/1/2023	5/10/2025	
MDTA19BMP0342	2023	624950.5584	1468430.2069	13-SF-5501		KH0672S01	S	PMED	REDE	6/1/2022	P	6/1/2023	5/31/2025	
MDTA19BMP0343	2023	627032.1995	1470751.6619	13-SF-5501		KH0677N01	S	PMED	REDE	6/3/2022	P	6/1/2023	6/2/2025	
MDTA19BMP0344	2023	629101.0516	1472407.2432	13-SF-5501		KH0682N01	S	PWED	REDE	6/3/2022	P	6/1/2023	6/2/2025	
MDTA19BMP0345	2023	629978.7619	1472394.0493	13-SF-5501		KH0684S01	S	PWED	REDE	6/1/2022	P	6/1/2023	5/31/2025	
MDTA19BMP0346	2023	631862.3733	1474296.7310	13-SF-5501	91-SF-0119	KH0689N01	S	ITRN	REDE	4/29/2020	P	6/1/2023	4/29/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0347	2023	633312.9223	1475550.1161	13-SF-5501	91-SF-0119	KH0692M01	S	ITRN	REDE	6/2/2020	P	6/1/2023	6/2/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0348	2023	633618.1823	1475858.1523	13-SF-5501	91-SF-0119	KH0693M01	S	ITRN	REDE	6/2/2020	P	6/1/2023	6/2/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0349	2023	634571.7315	1476861.2884	13-SF-5501	91-SF-0119	KH0696M01	S	ITRN	REDE	6/2/2020	P	6/1/2023	6/2/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0350	2023	634678.8484	1476802.6426	13-SF-5501		KH0696S01U	E	MSWB	CONV	5/31/2023	P	6/1/2023	5/30/2026	
MDTA19BMP0351	2023	636278.3119	1478398.9481	13-SF-5501	91-SF-0119	KH0700S01	S	ITRN	REST	5/31/2023	P	6/1/2023	5/30/2026	
MDTA19BMP0352	2023	638606.8957	1479827.3309	13-SF-5501		KH0705M01U	E	MSWB	CONV	5/13/2020	P	6/1/2023	5/13/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0353	2023	638914.6742	1480185.5980	13-SF-5501	15-SF-0240	KH0706M01U	E	MSWB	CONV	5/13/2020	P	6/1/2023	5/13/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0354	2023	639198.0024	1480655.8148	13-SF-5501	15-SF-0240	KH0706M02U	E	MSWB	CONV	3/28/2019	P	6/1/2023	3/27/2022	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0355	2023	639744.7276	1481440.9136	13-SF-5501		KH0709S01U	E	MSWB	CONV	6/2/2020	P	6/1/2023	6/2/2023	BMP not inspected due to proximity to construction zone
MDTA19BMP0356	2023	640958.9380	1483704.7728	13-SF-5501		KH0713M01U	E	MSWB	CONV	5/13/2020	P	6/1/2023	5/13/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0357	2023	640715.4495	1483355.9986	13-SF-5501		KH0713M02	E	MSWG	REST	5/13/2020	P	6/1/2023	5/13/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0358	2023	640684.0383	1483476.1971	13-SF-5501	91-SF-0119	KH0713N01	S	ITRN	REST	6/9/2020	P	6/1/2023	6/9/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0359	2023	641120.6311	1483919.6904	13-SF-5501	91-SF-0119	KH0714M01	S	ITRN	REST	5/13/2020	P	6/1/2023	5/13/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0360	2023	641079.2236	1483713.4843	13-SF-5501	91-SF-0119	KH0714S01	S	ITRN	REST	5/31/2023	P	6/1/2023	5/30/2026	
MDTA19BMP0361	2023	642527.8875	1485377.9300	13-SF-5501		KH0718S01U	E	MSWB	CONV	5/31/2023	P	6/1/2023	5/30/2026	
MDTA19BMP0362	2023	643061.6050	1485946.6113	13-SF-5501	91-SF-0119	KH0720S01	S	ITRN	REST	5/31/2023	P	6/1/2023	5/30/2026	
MDTA19BMP0363	2023	644234.7770	1487198.3942	13-SF-5501	91-SF-0119	KH0723S01	S	ITRN	REST	5/31/2023	P	6/1/2023	5/30/2026	
MDTA19BMP0364	2023	644659.1003	1487988.1826	13-SF-5501	91-SF-0119	KH0724N01	S	IBAS	REST	4/29/2020	P	6/1/2023	4/29/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0365	2023	647002.7798	1491862.7339	13-SF-5501	18-SF-0205	KH0733O01	E	MMBR	REST	4/19/2023	P	6/1/2023	4/18/2026	
MDTA19BMP0366	2023	647362.2945	1492641.9718	13-SF-5501	91-SF-0119	KH0735S01	S	ITRN	REST	6/2/2020	P	6/1/2023	6/2/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0367	2023	646998.7815	1495480.7485	13-SF-5501	06-SF-0213	KH0740O01	S	FSND	REDE	4/29/2020	P	6/1/2023	4/29/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0368	2023	647355.4691	1496105.4382	13-SF-5501	91-SF-0119	KH0741S01	S	PWET	REST	4/20/2020	P	6/1/2023	4/20/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0369	2023	647151.1291	1496540.8834	13-SF-5501	91-SF-0119	KH0742N01	S	ITRN	REST	6/2/2020	P	6/1/2023	6/2/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0370	2023	646961.9970	1496373.8300	13-SF-5501	98-SF-0249	KH0742O01	S	ITRN	REST	4/29/2020	P	6/1/2023	4/29/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0371	2023	647148.4333	1496942.0669	13-SF-5501	91-SF-0119	KH0743N01	S	ITRN	REST	6/2/2020	P	6/1/2023	6/2/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0372	2023	647098.3740	1497354.8895	13-SF-5501	91-SF-0119	KH0743N02	S	IBAS	REST	4/29/2020	P	6/1/2023	4/29/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0373	2023	647780.0778	1498718.5541	13-SF-5501	91-SF-0119	KH0747S01	S	ITRN	REST	5/27/2020	P	6/1/2023	5/27/2023	BMP not inspected in FY23 due to I-95 ETL Construction
MDTA19BMP0374	2023	651996.3325	1506207.4291	13-SF-5501	91-SF-0119	KH0763N01	S	ITRN	REDE	5/31/2023	P	6/1/2023	5/30/2026	
MDTA19BMP0375	2023	653418.2805	1506614.8974	13-SF-5501	06-SF-0191	KH0763S01	S	PWED	REDE	4/25/2023	P	6/1/2023	4/24/2026	
MDTA19BMP0376	2023	652685.0179	1506159.0881	13-SF-5501	91-SF-0119	KH0764S01	S	ITRN	REST	4/25/2023	P	6/1/2023	4/24/2026	
MDTA19BMP0377	2023	654127.3641	1509771.3955	13-SF-5501	91-SF-0119	KH0771N01	S	ITRN	REST	5/31/2023	P	6/1/2023	5/30/2026	
MDTA19BMP0378	2023	654276.2362	1509706.0679	13-SF-5501	91-SF-0119	KH0771S01	S	ITRN	REST	4/25/2023	P	6/1/2023	4/24/2026	
MDTA19BMP0379	2023	654800.2629	1510900.4423	13-SF-5501		KH0773M01	E	MSWG	REST	5/31/2023	P	6/1/2023	5/30/2026	
MDTA19BMP0380	2023	655636.8057	1512544.9013	13-SF-5501		KH0777M01	E	MSWG	REST	5/31/2023	P	6/1/2023	5/30/2026	
MDTA19BMP0381	2023	655875.4541	1513022.3392	13-SF-5501		KH0778M01	E	MSWG	REST	5/31/2023	P	6/1/2023	5/30/2026	
MDTA19BMP0382	2023	657941.0886	1516530.1022	13-SF-5501		KH0786M01	E	MSWG	REST	6/1/2023	P	6/1/2023	5/31/2026	
MDTA19BMP0383	2023	658641.3895	1516938.2050	13-SF-5501		KH0787S01	E	MSWG	REST	5/27/2020	P	6/1/2023	5/27/2023	
MDTA19BMP0384	2023	662127.9617	1521849.3419	13-SF-5501		KH0798M01	E	MSWG	REST	6/1/2023	P	6/1/2023	5/31/2026	
MDTA19BMP0385	2023	662465.0821	1522705.0105	13-SF-5501		KH0800M01	E	MSWG	REST	6/1/2023	P	6/1/2023	5/31/2026	
MDTA19BMP0386	2023	662107.6873	1523131.4585	13-SF-5501	13-SF-0024	KH0800N01	E	MSWG	REDE	4/19/2023	P	6/1/2023	4/18/2026	
MDTA19BMP0387	2023	663287.5612	1523931.6139	13-SF-5501	13-SF-0024	KH0803S01	E	MSWB	REDE	4/19/2023	P	6/1/2023	4/18/2026	
MDTA19BMP0388	2023	667267.7674	1528408.3776	13-SF-5501	12-SF-0358	KH0815F01	E	MRNG	REDE	3/10/2021	P	6/1/2023	3/9/2024	

MDTA19BMP0389	2023	667106.9344	1528725.4855	13-SF-5501	12-SF-0358	KH0816F01	E	MMBR	REDE	4/19/2023	P	6/1/2023	4/18/2026
MDTA19BMP0390	2023	667215.2371	1528510.8433	13-SF-5501	12-SF-0358	KH0816F02	E	MMBR	REDE	3/10/2021	P	6/1/2023	3/9/2024
MDTA19BMP0391	2023	667130.0414	1528595.2260	13-SF-5501	12-SF-0358	KH0816F03	E	MMBR	REDE	6/13/2022	P	6/1/2023	6/12/2025
MDTA19BMP0392	2023	667342.6427	1528452.2737	13-SF-5501	12-SF-0358	KH0816F04	E	MMBR	REDE	3/10/2021	P	6/1/2023	3/9/2024
MDTA19BMP0393	2023	667530.4822	1528625.5136	13-SF-5501	12-SF-0358	KH0816F05	E	MMBR	REDE	4/19/2023	P	6/1/2023	4/18/2026
MDTA19BMP0394	2023	667581.3083	1528622.3522	13-SF-5501	12-SF-0358	KH0816F06	E	MMBR	REDE	4/19/2023	P	6/1/2023	4/18/2026
MDTA19BMP0395	2023	667521.7890	1528805.0817	13-SF-5501	12-SF-0358	KH0816F07	E	MMBR	REDE	3/10/2021	P	6/1/2023	3/9/2024
MDTA19BMP0396	2023	667328.4707	1529080.8590	13-SF-5501	12-SF-0358	KH0817F01	E	MRNG	REDE	3/10/2021	P	6/1/2023	3/9/2024
MDTA19BMP0397	2023	667458.3863	1529143.9540	13-SF-5501	12-SF-0358	KH0817F02	E	MMBR	REDE	3/10/2021	P	6/1/2023	3/9/2024
MDTA19BMP0398	2023	667524.7140	1529464.6019	13-SF-5501	12-SF-0358	KH0817F03	E	MMBR	REDE	4/19/2023	P	6/1/2023	4/18/2026
MDTA19BMP0399	2023	667538.1710	1529444.1296	13-SF-5501	12-SF-0358	KH0817F04	E	MMBR	REDE	3/10/2021	P	6/1/2023	3/9/2024
MDTA19BMP0400	2023	667852.0825	1529030.4713	13-SF-5501	12-SF-0358	KH0817F05	E	MMBR	REDE	4/19/2023	P	6/1/2023	4/18/2026
MDTA19BMP0401	2023	668035.7074	1528950.3142	13-SF-5501	12-SF-0358	KH0817F06	E	MRNG	REDE	3/10/2021	P	6/1/2023	3/9/2024
MDTA19BMP0402	2023	668243.7703	1528887.6624	13-SF-5501	06-SF-0118	KH0817S01	S	FSND	REDE	5/23/2023	P	6/1/2023	5/22/2026
MDTA19BMP0403	2023	668110.7014	1529178.2379	13-SF-5501	12-SF-0358	KH0818F01	E	MMBR	REDE	4/19/2023	P	6/1/2023	4/18/2026
MDTA19BMP0404	2023	668163.3351	1529244.1121	13-SF-5501	12-SF-0358	KH0818F02	E	MMBR	REDE	3/10/2021	P	6/1/2023	3/9/2024
MDTA19BMP0405	2023	668235.9228	1529549.4442	13-SF-5501	12-SF-0358	KH0818F03	E	MMBR	REDE	3/10/2021	P	6/1/2023	3/9/2024
MDTA19BMP0406	2023	668136.0911	1529652.2579	13-SF-5501	12-SF-0358	KH0818F04	E	MMBR	REDE	3/10/2021	P	6/1/2023	3/9/2024
MDTA19BMP0407	2023	668070.9082	1529675.2886	13-SF-5501	12-SF-0358	KH0818F05	E	MMBR	REDE	3/10/2021	P	6/1/2023	3/9/2024
MDTA19BMP0408	2023	668180.4647	1529762.0450	13-SF-5501		KH0818O01	S	PWET	REDE	3/5/2021	P	6/1/2023	3/4/2024
MDTA19BMP0409	2023	668142.0902	1529886.6379	13-SF-5501	12-SF-0358	KH0819F01	E	MRNG	REDE	3/10/2021	P	6/1/2023	3/9/2024
MDTA19BMP0410	2023	671253.1454	1534323.2449	13-SF-5501		KH0828M01	E	MSWG	REST	5/31/2023	P	6/1/2023	5/30/2026
MDTA19BMP0411	2023	671805.0129	1534803.6234	13-SF-5501		KH0830M01	E	MSWG	REST	5/31/2023	P	6/1/2023	5/30/2026
MDTA19BMP0412	2023	676347.8395	1538341.7651	13-SF-5501		KH0841S01	E	MSWG	REST	5/18/2023	P	6/1/2023	5/17/2026
MDTA19BMP0413	2023	676911.7605	1538933.2607	13-SF-5501		KH0842M01	E	MSWG	REST	5/31/2023	P	6/1/2023	5/30/2026
MDTA19BMP0414	2023	677489.8952	1539402.0800	13-SF-5501		KH0843M01	E	MSWB	REST	5/13/2020	P	6/1/2023	5/13/2023
MDTA19BMP0415	2023	677788.4662	1539932.7615	13-SF-5501	00-SF-0277	KH0845N01	S	PWED	REST	3/5/2021	P	6/1/2023	3/4/2024
MDTA19BMP0416	2023	678790.0803	1540689.9550	13-SF-5501	00-SF-0277	KH0847S01	S	PWED	REST	3/5/2021	P	6/1/2023	3/4/2024
MDTA19BMP0417	2023	678961.7835	1541384.6055	13-SF-5501		KH0849M01	E	MSWB	REST	3/10/2021	P	6/1/2023	3/9/2024
MDTA19BMP0418	2023	679371.7494	1542129.2070	13-SF-5501		KH0850M01	E	MSWB	REST	5/13/2020	P	6/1/2023	5/13/2023
MDTA19BMP0419	2023	679732.5025	1542786.6641	13-SF-5501		KH0853M01	E	MSWB	REST	5/11/2023	P	6/1/2023	5/10/2026
MDTA19BMP0420	2023	679882.7772	1543252.2805	13-SF-5501		KH0853N01	E	MSWB	REST	5/11/2022	P	6/2/2023	5/10/2025
MDTA19BMP0421	2023	680326.9209	1543721.1873	13-SF-5501		KH0854M01	E	MSWB	REST	5/13/2020	P	6/2/2023	5/13/2023
MDTA19BMP0422	2023	680681.0709	1544129.5516	13-SF-5501	14-SF-0344	KH0854M02	E	MSWB	REST	5/11/2023	P	6/2/2023	5/10/2026
MDTA19BMP0423	2023	680186.3620	1543530.5694	13-SF-5501		KH0854M03	E	MSWB	REST	5/11/2022	P	6/2/2023	5/10/2025
MDTA19BMP0424	2023	681005.2007	1544452.2054	13-SF-5501		KH0855M01	E	MSWB	REST	5/11/2023	P	6/2/2023	5/10/2026
MDTA19BMP0425	2023	681903.0720	1545113.6513	13-SF-5501		KH0857M01	E	MSWB	REST	5/11/2022	P	6/2/2023	5/10/2025
MDTA19BMP0426	2023	682565.9657	1545461.7465	13-SF-5501		KH0858M01	E	MSWB	REST	5/11/2022	P	6/2/2023	5/10/2025
MDTA19BMP0427	2023	683427.8024	1545861.0082	13-SF-5501		KH0860M01	E	MSWB	REST	4/18/2023	P	6/2/2023	4/17/2026
MDTA19BMP0428	2023	684133.8134	1546191.6658	13-SF-5501		KH0862M01	E	MSWB	REST	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0429	2023	685009.8251	1546693.2868	13-SF-5501		KH0864M01	E	MSWG	REST	5/11/2023	P	6/2/2023	5/10/2026
MDTA19BMP0430	2023	687413.2690	1548832.9682	13-SF-5501	14-SF-0344	KH0870M01	E	MSWB	REST	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0431	2023	688353.3776	1549697.3887	13-SF-5501		KH0872M01	E	MSWB	REST	5/20/2022	P	6/2/2023	5/19/2025
MDTA19BMP0432	2023	688895.6789	1550234.0746	13-SF-5501	14-SF-0344	KH0874M01	E	MSWB	REST	5/23/2022	P	6/2/2023	5/22/2025
MDTA19BMP0433	2023	689614.7532	1551000.8831	13-SF-5501	14-SF-0344	KH0875M01	E	MSWB	REST	5/23/2022	P	6/2/2023	5/22/2025
MDTA19BMP0434	2023	690147.4641	1551572.6880	13-SF-5501	14-SF-0344	KH0877M01	E	MSWB	REST	5/23/2022	P	6/2/2023	5/22/2025
MDTA19BMP0435	2023	690660.9524	1552123.8332	13-SF-5501	14-SF-0344	KH0879M01	E	MSWB	REST	5/23/2022	P	6/2/2023	5/22/2025
MDTA19BMP0436	2023	691962.0607	1553469.9090	13-SF-5501	14-SF-0344	KH0882M01	E	MSWB	REST	5/24/2022	P	6/2/2023	5/23/2025
MDTA19BMP0437	2023	692303.3492	1553745.5993	13-SF-5501	14-SF-0344	KH0883M01	E	MSWB	REST	5/24/2022	P	6/2/2023	5/23/2025
MDTA19BMP0438	2023	693547.1001	1554573.3149	13-SF-5501	14-SF-0344	KH0886M01	E	MSWB	REST	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0439	2023	694411.9150	1555141.6975	13-SF-5501	14-SF-0344	KH0888M01	E	MSWB	REST	5/24/2022	P	6/2/2023	5/23/2025
MDTA19BMP0440	2023	695271.3865	1555781.1800	13-SF-5501	14-SF-0344	KH0890M01	E	MSWB	REST	5/24/2022	P	6/2/2023	5/23/2025
MDTA19BMP0441	2023	695680.5160	1556208.8823	13-SF-5501	14-SF-0344	KH0891M01	E	MSWB	REST	5/24/2022	P	6/2/2023	5/23/2025
MDTA19BMP0442	2023	695959.1556	1556410.6517	13-SF-5501	14-SF-0344	KH0891S01	E	MSWB	REST	5/24/2022	P	6/2/2023	5/23/2025
MDTA19BMP0443	2023	695944.4915	1556556.9267	13-SF-5501	14-SF-0344	KH0893M01	E	MSWB	REST	5/24/2022	P	6/2/2023	5/23/2025
MDTA19BMP0444	2023	696246.2069	1557063.4797	13-SF-5501	14-SF-0344	KH0893M02	E	MSWB	REST	5/24/2022	P	6/2/2023	5/23/2025
MDTA19BMP0445	2023	696624.2496	1558093.1895	13-SF-5501	14-SF-0344	KH0895M01	E	MSWB	REST	5/11/2023	P	6/2/2023	5/10/2026
MDTA19BMP0446	2023	700165.2891	1568980.7819	13-SF-5501	14-SF-0344	KH0916M01	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0447	2023	700160.8235	1569991.8420	13-SF-5501	14-SF-0344	KH0919M01	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0448	2023	700625.1058	1571985.3647	13-SF-5501		KH0923O01	S	PWET	REST	3/5/2021	P	6/2/2023	3/4/2024
MDTA19BMP0449	2023	700458.5157	1571678.0739	13-SF-5501		KH0923O02	S	PWET	REST	3/5/2021	P	6/2/2023	3/4/2024
MDTA19BMP0450	2023	700794.1182	1573039.8907	13-SF-5501	03-SF-0089	KH0925M01	E	MSWG	REST	5/18/2023	P	6/2/2023	5/17/2026
MDTA19BMP0451	2023	700340.7242	1573326.9498	13-SF-5501		KH0926O01	S	PWET	REST	3/5/2021	P	6/2/2023	3/4/2024
MDTA19BMP0452	2023	700830.4546	1573704.5881	13-SF-5501		KH0926O02	S	PWED	REST	5/18/2023	P	6/2/2023	5/17/2026
MDTA19BMP0453	2023	700090.4521	1573998.4588	13-SF-5501		KH0926O03	S	PWED	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0454	2023	702198.0408	1575464.6600	13-SF-5501		KH0929N01	S	ODSW	REST	4/27/2023	P	6/2/2023	4/26/2026
MDTA19BMP0455	2023	702259.8742	1574978.3695	13-SF-5501		KH0930N01	S	IBAS	REST	3/5/2021	P	6/2/2023	3/4/2024
MDTA19BMP0456	2023	703743.2579	1576338.9132	13-SF-5501	12-SF-0230	KH0933M01	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0457	2023	703900.9720	1576665.7288	13-SF-5501	12-SF-0230	KH0934M01	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0458	2023	703773.4228	1576142.3709	13-SF-5501		KH0934S01	S	XDED	REST	5/18/2023	P	6/2/2023	5/17/2026
MDTA19BMP0459	2023	704283.8273	1577773.7077	13-SF-5501	12-SF-0230	KH0936M01	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0460	2023	704347.6188	1577964.8915	13-SF-5501	12-SF-0230	KH0936M02	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0461	2023	704502.9391	1578419.9275	13-SF-5501	12-SF-0230	KH0936M03	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0462	2023	704852.5335	1579446.2594	13-SF-5501	12-SF-0230	KH0939M01	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0463	2023	704980.3424	1579834.7790	13-SF-5501	12-SF-0230	KH0939M02	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0464	2023	705091.7715	1580154.3043	13-SF-5501	12-SF-0230	KH0941M01	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0465	2023	705997.9365	1582046.7597	13-SF-5501	12-SF-0230	KH0945M01	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0466	2023	706192.1548	1582333.0847	13-SF-5501	12-SF-0230	KH0947M01	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025

MDTA19BMP0467	2023	706469.3568	1582742.8114	13-SF-5501	12-SF-0230	KH0947M02	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0468	2023	707090.4489	1583718.7972	13-SF-5501	12-SF-0230	KH0950M01	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0469	2023	707435.2334	1584467.9365	13-SF-5501	12-SF-0230	KH0950M02	E	MSWB	REST	5/25/2022	P	6/2/2023	5/24/2025
MDTA19BMP0470	2023	709686.9117	1590699.3893	13-SF-5501	12-SF-0359	KH0964F01	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0471	2023	709625.5118	1590810.7638	13-SF-5501	12-SF-0359	KH0964F02	E	MRNG	REDE	4/27/2023	P	6/2/2023	4/26/2026
MDTA19BMP0472	2023	709579.8173	1590803.0140	13-SF-5501	12-SF-0359	KH0964F03	E	MRNG	REDE	4/27/2023	P	6/2/2023	4/26/2026
MDTA19BMP0473	2023	709394.3870	1590801.3097	13-SF-5501	12-SF-0359	KH0964F04	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0474	2023	709383.5131	1590832.1885	13-SF-5501	12-SF-0359	KH0964F05	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0475	2023	709836.0054	1590948.4069	13-SF-5501	12-SF-0359	KH0964F06	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0476	2023	709873.2834	1590995.9584	13-SF-5501	12-SF-0359	KH0964F07	E	MRNG	REDE	4/27/2023	P	6/2/2023	4/26/2026
MDTA19BMP0477	2023	709907.1343	1591002.6651	13-SF-5501	12-SF-0359	KH0964F08	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0478	2023	709369.1066	1591118.4247	13-SF-5501	12-SF-0359	KH0964F09	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0479	2023	709396.8068	1591210.5764	13-SF-5501	12-SF-0359	KH0964F10	E	MMBR	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0480	2023	709509.3843	1591338.4685	13-SF-5501	12-SF-0359	KH0965F01	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0481	2023	709574.3204	1591403.0756	13-SF-5501	12-SF-0359	KH0965F02	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0482	2023	709589.7182	1591464.2687	13-SF-5501	12-SF-0359	KH0965F03	E	MRNG	REDE	4/27/2023	P	6/2/2023	4/26/2026
MDTA19BMP0483	2023	709614.8196	1591517.7785	13-SF-5501	12-SF-0359	KH0965F04	E	MRNG	REDE	4/27/2023	P	6/2/2023	4/26/2026
MDTA19BMP0484	2023	709647.6395	1591575.9032	13-SF-5501	12-SF-0359	KH0965F05	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0485	2023	709960.7189	1591178.0314	13-SF-5501	12-SF-0359	KH0965F06	E	MMBR	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0486	2023	710049.7801	1591209.5427	13-SF-5501	12-SF-0359	KH0965F07	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0487	2023	710087.2104	1591278.8366	13-SF-5501	12-SF-0359	KH0965F08	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0488	2023	709672.6029	1591811.3405	13-SF-5501	12-SF-0359	KH0966F01	E	MMBR	REDE	4/27/2023	P	6/2/2023	4/26/2026
MDTA19BMP0489	2023	710289.5598	1591647.2997	13-SF-5501	12-SF-0359	KH0966F02	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0490	2023	709961.2995	1592255.5525	13-SF-5501	12-SF-0359	KH0967F01	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0491	2023	710003.0853	1592262.4921	13-SF-5501	12-SF-0359	KH0967F02	E	MRNG	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0492	2023	710072.6529	1592292.7375	13-SF-5501	12-SF-0359	KH0967F03	E	MMBR	REDE	4/25/2023	P	6/2/2023	4/24/2026
MDTA19BMP0493	2023	710077.1245	1592485.1321	13-SF-5501	12-SF-0359	KH0967F04	E	MMBR	REDE	4/25/2023	P	6/2/2023	4/24/2026
MDTA19BMP0494	2023	710340.5068	1592076.7637	13-SF-5501	12-SF-0359	KH0967F05	E	MMBR	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0495	2023	710473.8704	1592076.7300	13-SF-5501	12-SF-0359	KH0967F06	E	MMBR	REDE	3/10/2021	P	6/2/2023	3/9/2024
MDTA19BMP0496	2023	710935.2723	1593638.4072	13-SF-5501		KH0970M01	E	MSWG	REST	4/25/2023	P	6/2/2023	4/24/2026
MDTA19BMP0497	2023	712367.7699	1595109.8917	13-SF-5501	12-SF-0230	KH0973M01	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0498	2023	712329.9227	1595140.3626	13-SF-5501	12-SF-0230	KH0973M02	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0499	2023	712566.3185	1595321.0467	13-SF-5501	12-SF-0230	KH0973M03	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0500	2023	712779.1503	1595550.7039	13-SF-5501	12-SF-0230	KH0975M01	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0501	2023	712987.7898	1595771.0239	13-SF-5501	12-SF-0230	KH0975M02	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0502	2023	713451.2101	1596270.0061	13-SF-5501	12-SF-0230	KH0976M01	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0503	2023	713645.2610	1596479.3410	13-SF-5501	12-SF-0230	KH0976M02	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0504	2023	714070.3802	1597051.1902	13-SF-5501	12-SF-0230	KH0979M01	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0505	2023	714350.4658	1597347.4661	13-SF-5501	12-SF-0230	KH0979M02	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0506	2023	714482.4029	1597565.8898	13-SF-5501	12-SF-0230	KH0980M01	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0507	2023	714849.9809	1598423.2459	13-SF-5501	12-SF-0230	KH0982M01	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0508	2023	715172.5671	1599254.4185	13-SF-5501		KH0983M01	E	MSWG	REST	4/25/2023	F	6/2/2023	4/24/2026
MDTA19BMP0509	2023	715349.6070	1600437.3751	13-SF-5501	12-SF-0230	KH0986M01	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0510	2023	715375.4121	1600732.2665	13-SF-5501	12-SF-0230	KH0986M02	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0511	2023	715395.8621	1600912.2081	13-SF-5501	12-SF-0230	KH0986M03	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0512	2023	715428.0740	1601233.8647	13-SF-5501	12-SF-0230	KH0986M04	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0513	2023	715439.7541	1601433.7190	13-SF-5501	12-SF-0230	KH0986M05	E	MSWB	REST	5/26/2022	P	6/2/2023	5/25/2025
MDTA19BMP0514	2023	715484.8372	1601766.9303	13-SF-5501	12-SF-0230	KH0987M01	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0515	2023	715525.0782	1602031.9947	13-SF-5501	12-SF-0230	KH0987M02	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0516	2023	715563.0283	1602295.5084	13-SF-5501	12-SF-0230	KH0987M03	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0517	2023	715611.9060	1602602.9300	13-SF-5501	12-SF-0230	KH0987M04	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0518	2023	715677.0671	1602923.9809	13-SF-5501	12-SF-0230	KH0989M01	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0519	2023	715765.8880	1603257.0081	13-SF-5501	12-SF-0230	KH0989M02	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0520	2023	716194.6364	1604300.7428	13-SF-5501	12-SF-0230	KH0991M01	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0521	2023	716020.7834	1603960.5968	13-SF-5501		KH0992M01	E	MSWG	REST	4/25/2023	P	6/2/2023	4/24/2026
MDTA19BMP0522	2023	716664.7032	1605061.8126	13-SF-5501	12-SF-0230	KH0994M01	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0523	2023	717795.1265	1606666.6091	13-SF-5501	12-SF-0230	KH0998M02	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0524	2023	717055.1020	1606814.6975	13-SF-5501		KH0998N01	S	PWED	REST	5/18/2023	P	6/2/2023	5/17/2026
MDTA19BMP0525	2023	718151.5045	1606790.3920	13-SF-5501		KH0999S01	S	PWED	REST	5/18/2023	P	6/2/2023	5/17/2026
MDTA19BMP0526	2023	718083.6654	1607074.8041	13-SF-5501	12-SF-0230	KH1000M01	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0527	2023	718782.4239	1608046.6001	13-SF-5501	12-SF-0230	KH1002M01	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0528	2023	719838.1926	1609529.7949	13-SF-5501	12-SF-0230	KH1004M01	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0529	2023	720039.8197	1609816.1937	13-SF-5501	12-SF-0230	KH1004M02	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0530	2023	720289.1261	1610184.3946	13-SF-5501	12-SF-0230	KH1005M01	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0531	2023	720525.2012	1610560.8879	13-SF-5501	12-SF-0230	KH1005M02	E	MSWB	REST	6/1/2022	P	6/2/2023	5/31/2025
MDTA19BMP0532	2023	720429.3927	1611357.4624	13-SF-5501	02-SF-0034	KH1006F01	S	FBIO	REST	4/20/2023	P	6/2/2023	4/19/2026
MDTA19BMP0533	2023	720809.8184	1611331.9619	13-SF-5501		KH1007F01	S	ITRN	REST	6/7/2023	P	11/1/2022	6/6/2026
MDTA19BMP0534	2023	722111.6362	1613893.3355	13-SF-5501	12-SF-0230	KH1013M01	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025
MDTA19BMP0535	2023	722208.5805	1614170.1072	13-SF-5501	12-SF-0230	KH1013M02	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025
MDTA19BMP0536	2023	722511.6875	1615183.6843	13-SF-5501	12-SF-0230	KH1014M01	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025
MDTA19BMP0537	2023	722381.0144	1616576.1777	13-SF-5501	12-SF-0230	KH1019M01	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025
MDTA19BMP0538	2023	722225.3886	1616951.2849	13-SF-5501	12-SF-0230	KH1020M01	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025
MDTA19BMP0539	2023	721427.2450	1618739.5172	13-SF-5501		KH1024M01	E	MSWG	REST	4/20/2023	P	6/2/2023	4/19/2026
MDTA19BMP0540	2023	720963.9904	1620377.5002	13-SF-5501	12-SF-0230	KH1027M01	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025
MDTA19BMP0541	2023	720995.3757	1620796.6160	13-SF-5501	12-SF-0230	KH1028M01	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025
MDTA19BMP0542	2023	721058.4761	1621104.1790	13-SF-5501	12-SF-0230	KH1028M02	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025
MDTA19BMP0543	2023	721941.5231	1624686.0851	13-SF-5501	12-SF-0230	KH1036M01	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025
MDTA19BMP0544	2023	722024.7324	1625014.0170	13-SF-5501	12-SF-0230	KH1036M02	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025

MDTA19BMP0545	2023	722199.2058	1626338.0207	13-SF-5501	12-SF-0230	KH1038M01	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025	
MDTA19BMP0546	2023	722184.3778	1626807.1018	13-SF-5501	12-SF-0230	KH1039M01	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025	
MDTA19BMP0547	2023	722141.6827	1627215.2094	13-SF-5501	12-SF-0230	KH1039M02	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025	
MDTA19BMP0548	2023	722001.8455	1627920.8160	13-SF-5501	12-SF-0230	KH1039M03	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025	
MDTA19BMP0549	2023	721718.0655	1628732.9938	13-SF-5501	12-SF-0230	KH1044M01	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025	
MDTA19BMP0550	2023	721619.1836	1628991.3413	13-SF-5501	12-SF-0230	KH1044M02	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025	
MDTA19BMP0551	2023	721281.4046	1631026.7210	13-SF-5501	12-SF-0230	KH1048M01	E	MSWB	REST	6/7/2022	P	6/2/2023	6/6/2025	
MDTA19BMP0552	2023	721478.5855	1632425.7720	13-SF-5501	12-SF-0230	KH1050M01	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0553	2023	721844.2842	1633523.5489	13-SF-5501	12-SF-0230	KH1050M02	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0554	2023	722022.6202	1634039.0942	13-SF-5501	12-SF-0230	KH1053M01	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0555	2023	722199.0564	1634550.6492	13-SF-5501	12-SF-0230	KH1053M02	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0556	2023	722363.2082	1635027.4730	13-SF-5501	12-SF-0230	KH1055M01	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0557	2023	722493.8561	1635407.1972	13-SF-5501	12-SF-0230	KH1055M02	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0558	2023	722934.2053	1636724.6439	13-SF-5501	12-SF-0230	KH1059M01	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0559	2023	723007.8922	1637055.7524	13-SF-5501	12-SF-0230	KH1060M01	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0560	2023	723096.5428	1637661.7488	13-SF-5501	12-SF-0230	KH1061M01	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0561	2023	723114.7305	1638002.2635	13-SF-5501	12-SF-0230	KH1061M02	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0562	2023	723105.5304	1638568.6356	13-SF-5501	12-SF-0230	KH1063M01	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0563	2023	723078.6985	1638848.8175	13-SF-5501	12-SF-0230	KH1063M02	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0564	2023	723028.3882	1639180.0095	13-SF-5501	12-SF-0230	KH1064M01	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0565	2023	722974.5266	1639446.1687	13-SF-5501	12-SF-0230	KH1064M02	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0566	2023	722881.7531	1639796.9851	13-SF-5501	12-SF-0230	KH1065M01	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0567	2023	722751.8508	1640184.8507	13-SF-5501	12-SF-0230	KH1065M02	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0568	2023	722629.7328	1640511.4832	13-SF-5501	12-SF-0230	KH1066M01	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0569	2023	722519.6893	1640804.4455	13-SF-5501	12-SF-0230	KH1067M01	E	MSWB	REST	6/8/2022	P	6/2/2023	6/7/2025	
MDTA19BMP0570	2023	722320.2543	1641338.6023	13-SF-5501	12-SF-0230	KH1070M01	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0571	2023	722162.7713	1641754.8396	13-SF-5501	12-SF-0230	KH1070M02	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0572	2023	722014.6985	1642225.3887	13-SF-5501	12-SF-0230	KH1070M03	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0573	2023	721911.6489	1642670.0179	13-SF-5501	12-SF-0230	KH1072M01	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0574	2023	721861.8587	1642994.3831	13-SF-5501	12-SF-0230	KH1072M02	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0575	2023	721823.7198	1643532.9099	13-SF-5501	12-SF-0230	KH1072M03	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0576	2023	721799.7625	1644297.8230	13-SF-5501	12-SF-0230	KH1074M01	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0577	2023	721780.2789	1645021.9182	13-SF-5501	12-SF-0230	KH1074M02	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0578	2023	721761.2881	1645673.7887	13-SF-5501	12-SF-0230	KH1074M03	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0579	2023	721746.5596	1646209.2164	13-SF-5501	12-SF-0230	KH1076M01	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0580	2023	721735.6127	1646678.3145	13-SF-5501	12-SF-0230	KH1076M02	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0581	2023	721663.1251	1646280.9344	13-SF-5501		KH1077N01	E	MSWG	REST	4/20/2023	P	6/2/2023	4/19/2026	
MDTA19BMP0582	2023	721697.1699	1647291.7158	13-SF-5501	12-SF-0230	KH1078M01	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0583	2023	721657.7404	1647643.0232	13-SF-5501	12-SF-0230	KH1078M02	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0584	2023	721598.7964	1647364.0451	13-SF-5501		KH1079N01	E	MSWG	REST	4/20/2023	P	6/2/2023	4/19/2026	
MDTA19BMP0585	2023	721572.1765	1648216.5027	13-SF-5501	12-SF-0230	KH1080M01	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0586	2023	721490.4432	1648647.1240	13-SF-5501	12-SF-0230	KH1080M02	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0587	2023	721362.5117	1649245.2931	13-SF-5501	12-SF-0230	KH1082M01	E	MSWB	REST	6/17/2022	P	6/2/2023	6/16/2025	
MDTA19BMP0588	2023	721562.4495	1648787.4148	13-SF-5501		KH1082S01	E	MSWG	REST	3/10/2021	P	6/2/2023	3/9/2024	
MDTA19BMP0589	2023	721033.8769	1650221.6092	13-SF-5501		KH1085N01	E	MSWG	REST	4/20/2023	P	6/2/2023	4/19/2026	
MDTA19BMP0590	2023	492957.2034	1479231.4809	13-SF-5501	16-SF-0150	LB0314E01	E	MSWG	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0591	2023	492042.2030	1479529.0879	13-SF-5501	16-SF-0150	LB0316A01	E	MSWG	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0592	2023	492113.1154	1479399.5908	13-SF-5501	16-SF-0150	LB0316A02	E	MSWG	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0593	2023	491857.5580	1480185.8881	13-SF-5501	03-SF-002	LB0317E01	E	MSWG	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0594	2023	491978.8118	1480119.5516	13-SF-5501	03-SF-002	LB0317E02	E	MSWG	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0595	2023	491457.7343	1480347.2787	13-SF-5501	03-SF-0028	LB0318E01	E	MSWG	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0596	2023	491357.7252	1480389.5708	13-SF-5501	03-SF-0028	LB0319E01	E	MSWG	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0597	2023	491658.9253	1480265.1124	13-SF-5501	03-SF-0028	LB0319E02	E	MSWG	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0599	2023	490725.6612	1480198.6749	13-SF-5501	97-SF-0341	LB0319F02	S	FSND	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0601	2023	491112.5860	1480072.4383	13-SF-5501	97-SF-0341	LB0319F04	S	FSND	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0602	2023	490501.2799	1480762.7364	13-SF-5501	03-SF-0028	LB0320F01	E	APRP	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0603	2023	490613.8557	1480735.0165	13-SF-5501	03-SF-0028	LB0320F02	E	APRP	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0604	2023	479617.5459	1501995.7233	13-SF-5501	16-SF-0150	LB0367M01	E	MSWG	REST	4/27/2023	P	6/29/2023	4/26/2026	
MDTA19BMP0605	2023	479689.1258	1501785.8720	13-SF-5501	16-SF-0150	LB0367M02	E	MSWG	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0606	2023	479419.0242	1502314.1330	13-SF-5501	16-SF-0150	LB0368E01	E	MSWG	REST	4/6/2021	P	6/29/2023	4/5/2024	
MDTA19BMP0607	2023	479503.4155	1502343.0449	13-SF-5501	16-SF-0150	LB0368M01	E	MSWG	REST	4/27/2023	P	6/29/2023	4/26/2026	
MDTA19BMP0608	2023	479413.8559	1502588.4155	13-SF-5501	16-SF-0150	LB0369M01	E	MSWG	REST	4/6/2021	P	6/29/2023	4/5/2024	
MDTA19BMP0609	2023	253678.0421	1317694.0535	13-SF-5501	03-SF-0246	NB0019F01	S	FSND	REST	4/5/2023	P	6/29/2023	4/4/2026	
MDTA19BMP0610	2023	254346.9210	1319029.8061	13-SF-5501	06-SF-0290	NB0021F01	E	APRP	REDE	4/7/2023	P	6/29/2023	4/6/2026	
MDTA19BMP0611	2023	254062.1143	1318662.9109	13-SF-5501	06-SF-0290	NB0021S01	S	FSND	REDE	3/18/2020	P	6/29/2023	3/18/2023	BMP not inspected due to proximity to construction zone
MDTA19BMP0612	2023	581544.6981	1441430.5536	13-SF-5501	02-SF-0269	PB0000F01	S	FUND	REST	10/1/2020	P	11/15/2022	10/1/2023	
MDTA19BMP0613	2023	581472.4901	1441435.7964	13-SF-5501	02-SF-0269	PB0000F02	S	FUND	REST	10/1/2020	P	11/15/2022	10/1/2023	
MDTA19BMP0614	2023	581400.1874	1441440.3103	13-SF-5501	02-SF-0269	PB0000F03	S	FUND	REST	10/1/2020	P	11/15/2022	10/1/2023	
MDTA19BMP0615	2023	0.0000	0.0000	13-SF-5501		STREET_SWEEP	A	VSS						
MDTA19BMP0618	2023	0.0000	0.0000	13-SF-5501		MDTA_IA_REMOVAL	A	IMPP						
MDTA19BMP0620	2023	641871.5820	1485238.8827	13-SF-5501	18-SF-0074	KH0717A01	E	MMBR	REST	4/19/2023	P	6/1/2023	4/18/2026	
MDTA19BMP0621	2023	488894.1454	1481563.8693	13-SF-5501	17-SF-0025	LB0323F01	E	MMBR	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0622	2023	582511.7583	1405986.9213	13-SF-5501	17-SF-0177	FT0501S01	S	FSND	REST	6/5/2023	P	6/8/2023	6/4/2026	
MDTA19BMP0623	2023	588531.3577	1438978.7969	13-SF-5501	17-SF-0177	HT0118S01	S	ODSW	REST	4/13/2023	P	6/12/2023	4/12/2026	
MDTA19BMP0624	2023	569960.8769	1451489.8232	13-SF-5501	14-SF-0047	KB0467E01	E	MSWG	REST	6/28/2022	P	6/15/2023	6/27/2025	
MDTA19BMP0625	2023	569840.5266	1451377.7135	13-SF-5501	14-SF-0047	KB0467E02	E	MSWG	REST	6/28/2022	P	6/15/2023	6/27/2025	
MDTA19BMP0626	2023	569688.5921	1451220.3810	13-SF-5501	14-SF-0047	KB0467E03	E	MSWG	REST	6/28/2022	P	6/15/2023	6/27/2025	
MDTA19BMP0627	2023	569363.8194	1450789.2607	13-SF-5501	14-SF-0047	KB0469E01	E	MSWG	REST	6/28/2022	P	6/15/2023	6/27/2025	

MDTA19BMP0628	2023	569404.6866	1450512.6911	13-SF-5501	14-SF-0047	KB0469A02	E	MMBR	REST	4/27/2022	P	6/15/2023	4/26/2025	
MDTA19BMP0629	2023	569330.8673	1450445.1380	13-SF-5501	14-SF-0047	KB0469A03	E	MMBR	REST	4/27/2022	P	6/15/2023	4/26/2025	
MDTA19BMP0630	2023	631462.6319	1473552.1437	13-SF-5501	19-SF-0016	KH0688S01	E	MSWG	REDE	5/31/2023	P	6/1/2023	5/30/2026	
MDTA19BMP0631	2023	632737.2804	1474781.8609	13-SF-5501	19-SF-0016	KH0691S01	E	MSWG	REDE	5/31/2023	P	6/1/2023	5/30/2026	
MDTA19BMP0633	2023	494888.9924	1474392.0632	13-SF-5501	NRD-5-1	LB0304W01	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0634	2023	564289.2929	1418439.5018	13-SF-5501	HT0B12S02	HT0B12S02	E	MSWB	REST	2/23/2022	P	6/12/2023	2/22/2025	
MDTA19BMP0635	2023	566952.9355	1400826.6949	13-SF-5501	HT0022W01	HT0022W01	E	MSWB	REST	3/21/2022	P	6/9/2023	3/20/2025	
MDTA19BMP0636	2023	494874.6727	1474436.5298	13-SF-5501	NRD-5-2	LB0304W02	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0637	2023	494454.1672	1475721.5142	13-SF-5501	NRD-6-1	LB0307W01	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0638	2023	494398.9485	1475891.7392	13-SF-5501	NRD-6-4	LB0307W04	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0639	2023	568353.0257	1403429.9101	13-SF-5501	HT0028W01	HT0028W01	E	MSWB	REST	3/23/2022	P	6/9/2023	3/22/2025	
MDTA19BMP0640	2023	494358.5983	1476014.2281	13-SF-5501	NRD-6-7	LB0307W07	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0641	2023	561567.6515	1418806.0517	13-SF-5501	HT0B07N03	HT0B07N03	E	MSWB	REST	2/22/2022	P	6/12/2023	2/21/2025	
MDTA19BMP0642	2023	495516.0491	1471576.2939	13-SF-5501	NRD-3-1	LB0299E01	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0643	2023	566978.8898	1400975.7922	13-SF-5501	HT0022W02	HT0022W02	E	MSWB	REST	3/21/2022	P	6/9/2023	3/20/2025	
MDTA19BMP0644	2023	494384.6702	1475933.9271	13-SF-5501	NRD-6-5	LB0307W05	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0645	2023	561720.9233	1418793.1169	13-SF-5501	HT0B07N02	HT0B07N02	E	MSWB	REST	2/22/2022	P	6/12/2023	2/21/2025	
MDTA19BMP0646	2023	494428.4694	1475800.5154	13-SF-5501	NRD-6-3	LB0307W03	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0647	2023	490845.8818	1480430.6797	13-SF-5501		LB0319F01U	S	PWET	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0648	2023	494859.1637	1474483.9523	13-SF-5501	NRD-5-3	LB0304W03	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0649	2023	663120.0398	1523001.6963	13-SF-5501	120034	KH0801A01	S	POND	REDE			6/1/2023	6/1/2024	Former SHA BMP
MDTA19BMP0650	2023	565586.0511	1397598.0205	13-SF-5501	HT0014W02	HT0014W02	E	MSWB	REST	3/21/2022	P	6/9/2023	3/20/2025	
MDTA19BMP0651	2023	570772.8544	1452650.0258	13-SF-5501	KB0464N01U	KB0464N01U	S	PWET	REST	4/13/2023	P	6/15/2023	4/12/2026	
MDTA19BMP0652	2023	494371.7883	1475974.1954	13-SF-5501	NRD-6-6	LB0307W06	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0653	2023	495506.1897	1471632.4079	13-SF-5501	NRD-3-4	LB0299E04	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0654	2023	564653.4974	1418432.9165	13-SF-5501	HT0B12S03	HT0B12S03	E	MSWB	REST	2/23/2022	P	6/12/2023	2/22/2025	
MDTA19BMP0655	2023	563855.5549	1418467.5485	13-SF-5501	HT0B12S01	HT0B12S01	E	MSWB	REST	2/23/2022	P	6/12/2023	2/22/2025	
MDTA19BMP0656	2023	494441.2410	1475761.0335	13-SF-5501	NRD-6-2	LB0307W02	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0657	2023	495008.6393	1474030.3087	13-SF-5501	NRD-4-2	LB0303W02	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0658	2023	494345.2691	1476054.9183	13-SF-5501	NRD-6-8	LB0307W08	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0659	2023	565470.5646	1397354.6279	13-SF-5501	HT0014W01	HT0014W01	E	MSWB	REST	3/21/2022	P	6/8/2023	3/20/2025	
MDTA19BMP0660	2023	494830.1718	1474572.4693	13-SF-5501	NRD-5-5	LB0304W05	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0661	2023	495491.2914	1471713.3572	13-SF-5501	NRD-3-6	LB0299E06	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0662	2023	495495.1268	1471692.7432	13-SF-5501	NRD-3-5	LB0299E05	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0663	2023	568581.2319	1403761.1804	13-SF-5501	HT0028W02	HT0028W02	E	MSWB	REST	3/23/2022	P	6/9/2023	3/22/2025	
MDTA19BMP0664	2023	495512.9044	1471595.0166	13-SF-5501	NRD-3-2	LB0299E02	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0665	2023	567047.4230	1401297.2403	13-SF-5501	HT0022W04	HT0022W04	E	MSWB	REST	3/21/2022	P	6/9/2023	3/20/2025	
MDTA19BMP0666	2023	495024.0389	1473985.4451	13-SF-5501	NRD-4-1	LB0303W01	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0667	2023	495509.5971	1471613.7132	13-SF-5501	NRD-3-3	LB0299E03	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0668	2023	491099.7131	1480364.1860	13-SF-5501		LB0319F03U	E	MSGW	REST	4/26/2023	P	6/29/2023	4/25/2026	
MDTA19BMP0669	2023	582301.8677	1436383.4044	13-SF-5501	FT0560F01U	FT0560F01U	S	PWET	REST	4/13/2023	P	6/8/2023	4/12/2026	
MDTA19BMP0670	2023	567008.6818	1401130.2133	13-SF-5501	HT0022W03	HT0022W03	E	MSWB	REST	3/21/2022	P	6/9/2023	3/20/2025	
MDTA19BMP0671	2023	494844.8167	1474527.8166	13-SF-5501	NRD-5-4	LB0304W04	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0672	2023	562041.3664	1418767.6941	13-SF-5501	HT0B07N01	HT0B07N01	E	MSWB	REST	2/22/2022	P	6/12/2023	2/21/2025	
MDTA19BMP0673	2023	494815.7719	1474616.4479	13-SF-5501	NRD-5-6	LB0304W06	E	NDNR	REDE	7/22/2022	P	6/29/2023	7/21/2025	
MDTA19BMP0675	2023	629341.4637	1472400.4519	13-SF-5501	BS 1-1-4	KH0683N02	E	MSWB	REDE	2/1/2023	P	6/1/2023	1/31/2026	
MDTA19BMP0676	2023	629818.8410	1472720.9762	13-SF-5501	BS 1-1-7	KH0684N03	E	MSWB	REDE	2/1/2023	P	6/1/2023	1/31/2026	
MDTA19BMP0677	2023	628875.6422	1472080.5073	13-SF-5501	BS 1-1-2	KH0682N02	E	MSWB	REDE	2/1/2023	P	6/1/2023	1/31/2026	
MDTA19BMP0678	2023	568566.3857	1404047.3744	13-SF-5501	HT0026M01	HT0028E01	E	MSWB	REST	3/23/2022	P	6/9/2023	3/22/2025	

Note: Several Example BMPs have been incorporated to help display the new structure.

[1] Every BMP Identified in this table should match BMP_ID data entered in either "Table B1.b._ESD.STRUCTURAL" sheet or "Table B.1.c._Alternative" sheet

[2] Northing and Easting are geographic points used to locate BMPs, Maryland requires using State Plane NAD 83 meters for geographic location. You can use Geographic Information Systems (GIS) or other computer programs to

Questions on Maryland specific stormwater design? Follow the link below.

Link to Maryland's Stormwater Design Manual

Table B.1.a. BMP Reporting Requirements

Description: This table is to be completed for all structural, ESD and alternative BMPs.

COLUMN NAME	DATA TYPE	SIZE	MANDATORY	DESCRIPTION
BMP_ID	TEXT	13	M	Unique MDE Table ID. (Ex: RO12BMP000001); see Table B.2
REPORTING_YEAR	TEXT	4	M	State fiscal year (YYYY)
MD_NORTH	NUMERIC	8	M	Maryland grid coordinate Northing (NAD 83 meters)
MD_EAST	NUMERIC	8	M	Maryland grid coordinate Easting (NAD 83 meters)
PERMIT_NUM	TEXT	10	M	General Discharge Permit Number (use: 13-SF-5500 for municipal permit and 13-SF_5501 for State and federal permit)
LOCAL_BMP_ID	TEXT	25	C	Local project approval number or State/Federal project approval number
BMP_NAME	TEXT	100	M	Use BMP names (e.g. Glendale Pond)
BMP_CLASS	TEXT	1	M	Use BMP classification noted in Table B.3 (E, S or A)
BMP_TYPE	TEXT	5	M	Use BMP Type or most predominant type from Table B.3
CON_PURPOSE	TEXT	4	M	Enter code for New development project (NEWD), Redevelopment (REDE), Restoration (REST), Conversion (CONV)
LAST_INSP_DATE	DATE	8	M*	Last inspection date (MM/DD/YYYY)
BMP_STATUS	TEXT	1	M	Enter P = Pass or F = Fail for BMP inspection status
MAIN_DATE	DATE	8	C	Last date maintenance was performed (MM/DD/YYYY); field is conditional on the BMP failing an inspection
REINSP_DATE	DATE	8	C	Next planned inspection date (MM/DD/YYYY)
REINSP_STATUS	TEXT	1	C	Re-inspection status (i.e., Pass/Fail); This is a follow-up inspection after a failed BMP has undergone maintenance
GEN_COMMENTS	TEXT	255	C	General comments - optional information

M = Mandatory

C = Conditional Only required if certain other data are provided.

*Note BMPs that are not inspected within the last 5 years will lose credit in the Chesapeake Bay Model.

Table B.1.b. Reporting Requirements for ESD and Structural Practices

Description: This table is used to collect information specific to ESD and Structural practices.

COLUMN NAME	DATA TYPE	SIZE	MANDATORY	DESCRIPTION
BMP_ID	TEXT	13	M	BMP_ID linking record to BMP_ID in Table B.1.a.
NUM_BMPS	NUMERIC	2	M	Sum total of BMPs used to meet P_E (enter 1 for a single BMP)
ON_OFF_SITE	TEXT	10	C	Is the facility located on the project site or off site
CONVERTED_FROM	TEXT	13	C	If conversion of existing BMP then prior BMP_ID should be entered here. Condtional on Con Purpose = CONV
BMP_STATUS	TEXT	10	M	BMP is either "ACT" for active or "REM" for removed
BMP_DRAIN_AREA	NUMERIC	6	M	Total drainage area (acres) to a single BMP or ESD system.
IMP_ACRES	NUMERIC	8	M	Total impervious area (acres) to a single BMP or ESD system.
PE_ADR	NUMERIC	8	M	P_E addressed: Rainfall (in inches) addressed for a single BMP or system of ESD practices within the drainage area
APPR_DATE	DATE	8	M	Permit approval date (MM/DD/YYYY)
BUILT_DATE	DATE	8	M	Construction completion date (MM/DD/YYYY)
GEN_COMMENTS	TEXT	255	C	General comments - optional information

Table B.1.b. Reporting Requirements for ESD and Structural Practices (Sample Input Table)

More specific data related to ESD and structural BMPs is populated in this table.

BMP_ID[1]	NUM_BMPS[2]	ON_OFF_SITE	CONVERTED_FROM	BMP_STATUS	BMP_DRAIN_AREA	IMP_ACRES[3]	PE_ADR	APPR_DATE	BUILT_DATE	GEN_COMMENTS
MDTA19BMP0001	1	ON	NO	ACT	14.73	6.47	1	8/1/2008	7/19/2010	FT0500S01
MDTA19BMP0003	1	ON	NO	ACT	4.6	2.88	0.5	11/13/1990	11/13/1990	FT0561F01
MDTA19BMP0004	1	ON	NO	ACT	8.49	2.34	1	1/10/2007	1/10/2007	FT0572S01
MDTA19BMP0005	1	ON	NO	ACT	3.24	1.68	1	12/1/2009	9/15/2011	FT0586S01
MDTA19BMP0006	1	ON	NO	ACT	24.55	8.26	1	4/11/2007	5/26/2013	FT0606N01
MDTA19BMP0007	1	ON	NO	ACT	0.15	0.07	0.5	2/2/1989	2/2/1989	HB0001F01
MDTA19BMP0008	1	ON	NO	ACT	1.66	0.86	1	5/1/2013	1/1/2014	HT0002A01
MDTA19BMP0009	1	ON	NO	ACT	0.9	0.33	1	5/1/2013	1/1/2014	HT0002A02
MDTA19BMP0010	1	ON	NO	ACT	1.24	0.67	1	5/1/2013	1/1/2014	HT0002A03
MDTA19BMP0011	1	ON	NO	ACT	1.21	0.69	1	5/1/2013	1/1/2014	HT0003A03
MDTA19BMP0012	1	ON	NO	ACT	0.98	0.47	0.97	5/1/2013	1/1/2014	HT0004A01
MDTA19BMP0013	1	ON	NO	ACT	0.74	0.35	1		1/1/2005	HT0006M01
MDTA19BMP0014	1	ON	NO	ACT	0.69	0.32	1		1/1/2005	HT0007M01
MDTA19BMP0015	1	ON	NO	ACT	1.66	0.79	0.96	5/1/2013	1/1/2014	HT0009A01
MDTA19BMP0016	1	ON	NO	ACT	0.78	0.42	1	5/1/2013	1/1/2014	HT0011A01
MDTA19BMP0017	1	ON	NO	ACT	0.84	0.45	0.88	5/1/2013	1/1/2014	HT0012A01
MDTA19BMP0018	1	ON	NO	ACT	0.84	0.43	1		1/1/2005	HT0013M01
MDTA19BMP0019	1	ON	NO	ACT	0.83	0.52	1	5/1/2006	5/1/2006	HT0015A01
MDTA19BMP0020	1	ON	NO	ACT	1.35	0.82	1		1/1/2005	HT0015M01
MDTA19BMP0021	1	ON	NO	ACT	1.14	0.57	1	5/1/2012	1/1/2014	HT0016A01
MDTA19BMP0022	1	ON	NO	ACT	1.2	0.62	1	6/1/2012	1/1/2013	HT0016M01
MDTA19BMP0023	1	ON	NO	ACT	1.23	0.76	1		1/1/2005	HT0017M01
MDTA19BMP0024	1	ON	NO	ACT	1.44	0.73	1	5/1/2013	1/1/2014	HT0018A01
MDTA19BMP0025	1	ON	NO	ACT	0.71	0.34	1	5/1/2013	1/1/2014	HT0020A01
MDTA19BMP0026	1	ON	NO	ACT	1.31	0.38	1	5/1/2013	1/1/2014	HT0021A01
MDTA19BMP0027	1	ON	NO	ACT	1.14	0.38	1	5/1/2013	1/16/2017	HT0021M01
MDTA19BMP0028	1	ON	NO	ACT	1.06	0.52	1		1/1/2005	HT0025M01
MDTA19BMP0029	1	ON	NO	ACT	1.07	0.56	1	6/1/2012	1/1/2013	HT0026M01
MDTA19BMP0030	1	ON	NO	ACT	0.7	0.53	1	7/30/2005	1/1/2006	HT0027S01
MDTA19BMP0031	1	ON	NO	ACT	1.74	0.97	1	6/1/2012	1/1/2013	HT0028M01
MDTA19BMP0032	1	ON	NO	ACT	1.82	0.98	1	6/1/2012	1/1/2013	HT0028M03
MDTA19BMP0033	1	ON	NO	ACT	1.77	0.95	1	6/1/2012	1/1/2013	HT0030M01
MDTA19BMP0034	1	ON	NO	ACT	0.59	0.3	1	6/1/2012	1/1/2013	HT0032M01
MDTA19BMP0035	1	ON	NO	ACT	0.82	0.42	1	6/1/2012	1/1/2013	HT0034M01
MDTA19BMP0036	1	ON	NO	ACT	1.31	0.68	1	6/1/2012	1/1/2013	HT0039M01
MDTA19BMP0037	1	ON	NO	ACT	1.44	0.78	1	6/1/2012	1/1/2013	HT0041M01
MDTA19BMP0038	1	ON	NO	ACT	0.93	0.51	1	6/1/2012	1/1/2013	HT0042M01
MDTA19BMP0039	1	ON	NO	ACT	0.94	0.53	1	6/1/2012	1/1/2013	HT0043M01
MDTA19BMP0040	1	ON	NO	ACT	0.72	0.4	1	6/1/2012	1/1/2013	HT0044M01
MDTA19BMP0041	1	ON	NO	ACT	0.39	0.21	1	6/1/2012	1/1/2013	HT0044M02
MDTA19BMP0042	1	ON	NO	ACT	1.2	0.65	1	6/1/2012	1/1/2013	HT0045M01
MDTA19BMP0043	1	ON	NO	ACT	1.01	0.49	1		1/1/2005	HT0046A01
MDTA19BMP0044	1	ON	NO	ACT	1.73	1.03	1	6/1/2012	1/1/2013	HT0046M01
MDTA19BMP0045	1	ON	NO	ACT	0.98	0.56	1	9/14/2015	2/1/2020	HT0050M01
MDTA19BMP0046	1	ON	NO	ACT	6.73	1.68	1	8/23/2005	1/1/2006	HT0080F01
MDTA19BMP0047	1	ON	NO	ACT	7.74	4.02	1	6/1/2006	1/1/2013	HT0139N01
MDTA19BMP0048	1	ON	NO	ACT	14.56	6.57	1	1/25/2008	1/1/2013	HT0140S01

MDTA19BMP0049	1	ON	NO	ACT	24.1	17.95	1	1/25/2008	1/1/2013	HT0147S01
MDTA19BMP0050	1	ON	NO	ACT	1	0.14	1	5/1/2016	5/1/2016	HT0B11N01
MDTA19BMP0051	1	ON	NO	ACT	1	0.15	1	5/1/2016	5/1/2016	HT0B11S01
MDTA19BMP0052	1	ON	NO	ACT	9.84	1.24	1	10/1/2007	1/1/2008	IC0026A03
MDTA19BMP0053	1	ON	NO	ACT	9.86	1.24	0	10/1/2007	1/1/2008	IC0026A04
MDTA19BMP0054	1	ON	NO	ACT	9.8	2.57	0	10/1/2007	1/1/2008	IC0026W01
MDTA19BMP0055	1	ON	NO	ACT	3.33	2.35	0	10/1/2007	1/1/2008	IC0027E02
MDTA19BMP0056	1	ON	NO	ACT	4.5	2.71	0	10/1/2007	1/1/2008	IC0027M03
MDTA19BMP0057	1	ON	NO	ACT	10.17	5.92	0	12/1/2007	1/1/2008	IC0032E03
MDTA19BMP0058	1	ON	NO	ACT	6.86	4.03	0	10/1/2007	1/1/2008	IC0036W01
MDTA19BMP0059	1	ON	NO	ACT	10.43	3.85	0	10/1/2007	1/1/2008	IC0037W01
MDTA19BMP0060	1	ON	NO	ACT	20.01	1.8	0	10/1/2007	1/1/2008	IC0040E01
MDTA19BMP0061	1	ON	NO	ACT	7.8	2.08	0	10/1/2007	1/1/2008	IC0042E01
MDTA19BMP0062	1	ON	NO	ACT	7.49	4.69	1	10/1/2007	1/1/2008	IC0048M01
MDTA19BMP0063	1	ON	NO	ACT	7.49	4.69	0	10/1/2007	1/1/2008	IC0048W01
MDTA19BMP0064	1	ON	NO	ACT	7.49	5.12	1	10/1/2007	1/1/2008	IC0048W02
MDTA19BMP0065	1	ON	NO	ACT	22.4	9	0	10/1/2007	1/1/2008	IC0051E02
MDTA19BMP0066	1	ON	NO	ACT	1.6	0.35474701	0	10/1/2007	1/1/2008	IC0053W02
MDTA19BMP0067	1	ON	NO	ACT	18.33	9.72	0	10/1/2007	1/1/2008	IC0056E01
MDTA19BMP0068	1	ON	NO	ACT	0.37	0.12	1	10/1/2007	1/1/2008	IC0059E01
MDTA19BMP0069	1	ON	NO	ACT	0.21	0.10	1	10/1/2007	1/1/2008	IC0059E05
MDTA19BMP0070	1	ON	NO	ACT	1.54	0.81	1	10/1/2007	1/1/2008	IC0059E08
MDTA19BMP0071	1	ON	NO	ACT	0.47	0.31	1	10/1/2007	1/1/2008	IC0059M03
MDTA19BMP0072	1	ON	NO	ACT	1.7	1.01	1	10/1/2007	1/1/2008	IC0059M04
MDTA19BMP0073	1	ON	NO	ACT	1.51	0.40	1	10/1/2007	1/1/2008	IC0059W03
MDTA19BMP0074	1	ON	NO	ACT	1.48	0.53	1	10/1/2007	1/1/2008	IC0059W04
MDTA19BMP0075	1	ON	NO	ACT	1.49	0.74	1	10/1/2007	1/1/2008	IC0063E02
MDTA19BMP0076	1	ON	NO	ACT	1.61	0.96	1	10/1/2007	1/1/2008	IC0063M02
MDTA19BMP0077	1	ON	NO	ACT	2.35	0.74	1	10/1/2007	1/1/2008	IC0063W02
MDTA19BMP0078	1	ON	NO	ACT	0.82	0.30	1	10/1/2007	1/1/2008	IC0064E02
MDTA19BMP0079	1	ON	NO	ACT	0.62	0.37	1	10/1/2007	1/1/2008	IC0064M02
MDTA19BMP0080	1	ON	NO	ACT	0.54	0.40	1	10/1/2007	1/1/2008	IC0064W02
MDTA19BMP0081	1	ON	NO	ACT	1.27	3.78	1	10/1/2007	1/1/2008	IC0064W03
MDTA19BMP0082	1	ON	NO	ACT	1.49	2.55	1	10/1/2007	1/1/2008	IC0065E02
MDTA19BMP0083	1	ON	NO	ACT	0.61	0.34	1	10/1/2007	1/1/2008	IC0065M01
MDTA19BMP0084	1	ON	NO	ACT	1.38	0.70	1	10/1/2007	1/1/2008	IC0065W02
MDTA19BMP0085	1	ON	NO	ACT	1.51	0.72	1	10/1/2007	1/1/2008	IC0066E01
MDTA19BMP0086	1	ON	NO	ACT	0	0.00	0	10/1/2007	1/1/2008	IC0066E02
MDTA19BMP0087	1	ON	NO	ACT	3.62	2.69	1	10/1/2007	1/1/2008	IC0066E03
MDTA19BMP0088	1	ON	NO	ACT	0.62	0.39	1	10/1/2007	1/1/2008	IC0066M04
MDTA19BMP0089	1	ON	NO	ACT	0.52	0.04	1	10/1/2007	1/1/2008	IC0066W02
MDTA19BMP0090	1	ON	NO	ACT	0.09	0.01	1	10/1/2007	1/1/2008	IC0066W04
MDTA19BMP0091	1	ON	NO	ACT	0.33	0.08	1	10/1/2007	1/1/2008	IC0066W05
MDTA19BMP0092	1	ON	NO	ACT	3.45	2.56	1	10/1/2007	1/1/2008	IC0068E01
MDTA19BMP0093	1	ON	NO	ACT	0.32	0.09	1	10/1/2007	1/1/2008	IC0068W01
MDTA19BMP0094	1	ON	NO	ACT	0.04	0.02	1	10/1/2007	1/1/2008	IC0068W03
MDTA19BMP0095	1	ON	NO	ACT	0.42	0.30	1	10/1/2007	1/1/2016	IC0069M01
MDTA19BMP0096	1	ON	NO	ACT	0.46	0.31	1	10/1/2007	1/1/2016	IC0069M02
MDTA19BMP0097	1	ON	NO	ACT	0.04	0.01	1	10/1/2007	1/1/2016	IC0069W01
MDTA19BMP0098	1	ON	NO	ACT	0.48	0.08	1	10/1/2007	1/1/2016	IC0069W02
MDTA19BMP0099	1	ON	NO	ACT	1.17	2.18	1	10/1/2007	1/1/2016	IC0070E01

MDTA19BMP0100	1	ON	NO	ACT	1.96	1.29	1	10/1/2007	1/1/2016	IC0070M02
MDTA19BMP0101	1	ON	NO	ACT	2.01	0.27	1	10/1/2007	1/1/2016	IC0070W05
MDTA19BMP0102	1	ON	NO	ACT	2.16	5.43	1	10/1/2007	1/1/2016	IC0071E01
MDTA19BMP0103	1	ON	NO	ACT	1.59	0.67	1	10/1/2007	1/1/2016	IC0072E03
MDTA19BMP0104	1	ON	NO	ACT	1.23	0.83	1	10/1/2007	1/1/2016	IC0072M02
MDTA19BMP0105	1	ON	NO	ACT	1.56	0.18	1	10/1/2007	1/1/2016	IC0072W02
MDTA19BMP0106	1	ON	NO	ACT	2.61	1.18	1	10/1/2007	1/1/2016	IC0073E02
MDTA19BMP0107	1	ON	NO	ACT	0.75	0.31	1	10/1/2007	1/1/2016	IC0073E03
MDTA19BMP0108	1	ON	NO	ACT	2.03	1.38	1	10/1/2007	1/1/2016	IC0073M01
MDTA19BMP0109	1	ON	NO	ACT	1.88	1.62	1	10/1/2007	1/1/2016	IC0073M03
MDTA19BMP0110	1	ON	NO	ACT	0.91	0.28	1	10/1/2007	1/1/2016	IC0073W02
MDTA19BMP0111	1	ON	NO	ACT	1.22	0.74	1	10/1/2007	1/1/2016	IC0075E02
MDTA19BMP0112	1	ON	NO	ACT	0.3	2.73	0.67	10/1/2007	1/1/2016	IC0075E03
MDTA19BMP0113	1	ON	NO	ACT	0.55	6.24	0.99	10/1/2007	1/1/2016	IC0075E04
MDTA19BMP0114	1	ON	NO	ACT	1.28	0.85	1	10/1/2007	1/1/2016	IC0075W02
MDTA19BMP0115	1	ON	NO	ACT	0.71	0.42	1	10/1/2007	1/1/2016	IC0076E02
MDTA19BMP0116	1	ON	NO	ACT	0.72	0.41	1	10/1/2007	1/1/2016	IC0077E03
MDTA19BMP0117	1	ON	NO	ACT	0.93	0.56	1	10/1/2007	1/1/2016	IC0077E04
MDTA19BMP0118	1	ON	NO	ACT	1.29	0.76	1	10/1/2007	1/1/2016	IC0077M02
MDTA19BMP0119	1	ON	NO	ACT	1.82	1.07	1	10/1/2007	1/1/2016	IC0077W02
MDTA19BMP0120	1	ON	NO	ACT	1.12	0.40	1	10/1/2007	1/1/2016	IC0078E02
MDTA19BMP0121	1	ON	NO	ACT	1.99	1.43	1	10/1/2007	1/1/2016	IC0078M02
MDTA19BMP0122	1	ON	NO	ACT	1.77	1.19	1	10/1/2007	1/1/2016	IC0078W01
MDTA19BMP0123	1	ON	NO	ACT	5.07	2.84	0	8/24/2011	8/24/2011	IC0082E01
MDTA19BMP0124	1	ON	NO	ACT	3.47	2.21	1	8/24/2011	8/24/2011	IC0082E02
MDTA19BMP0125	1	ON	NO	ACT	5.96	3.00	1	10/1/2007	1/1/2016	IC0082E04
MDTA19BMP0126	1	ON	NO	ACT	43.59	19.72	0	10/1/2007	1/1/2016	IC0083E03
MDTA19BMP0127	1	ON	NO	ACT	8.22	3.79	0.94	10/1/2007	1/1/2016	IC0083W04
MDTA19BMP0128	1	ON	NO	ACT	27.92	13.50	0	1/1/2009	1/1/2015	IC0089W01
MDTA19BMP0129	1	ON	NO	ACT	0.29	1.47	0	1/1/2009	1/1/2010	IC0091E01
MDTA19BMP0130	1	ON	NO	ACT	0.43	0.44	0.06	1/1/2009	1/1/2010	IC0091E01A
MDTA19BMP0131	1	ON	NO	ACT	7.06	1.47	1	1/1/2009	1/1/2010	IC0092W01
MDTA19BMP0132	1	ON	NO	ACT	5.97	1.03	1	1/1/2009	1/1/2010	IC0092W01A
MDTA19BMP0133	1	ON	NO	ACT	17.94	7.57	0	1/1/2009	1/1/2015	IC0097E01
MDTA19BMP0134	1	ON	NO	ACT	1.47	1.27	0.99	1/1/2009	1/1/2015	IC0106E01
MDTA19BMP0135	1	ON	NO	ACT	1.15	1.16	0.05	1/1/2009	1/1/2015	IC0106E01A
MDTA19BMP0136	1	ON	NO	ACT	15.13	3.02	0	1/1/2009	1/1/2015	IC0106E02
MDTA19BMP0137	1	ON	NO	ACT	35.04	16.99	0	1/1/2009	1/1/2015	IC0106W01
MDTA19BMP0138	1	ON	NO	ACT	25.26	7.73	0	1/1/2009	1/1/2015	IC0108W01
MDTA19BMP0139	1	ON	NO	ACT	0.98	0.67678286	0	1/1/2009	1/1/2015	IC0109W01
MDTA19BMP0140	1	ON	NO	ACT	1.15	1.17	0.03	1/1/2009	1/1/2015	IC0109W01A
MDTA19BMP0141	1	ON	NO	ACT	1.02	0.91	0.99	1/1/2009	1/1/2015	IC0111E01
MDTA19BMP0142	1	ON	NO	ACT	1.77	1.73	0.06	1/1/2009	1/1/2015	IC0111E01A
MDTA19BMP0143	1	ON	NO	ACT	5.38	3.25	1	1/1/2009	1/1/2015	IC0113E01
MDTA19BMP0144	1	ON	NO	ACT	1.1	1.08	0.06	1/1/2009	1/1/2015	IC0113E01A
MDTA19BMP0145	1	ON	NO	ACT	1.44	1.11	0	1/1/2009	1/1/2015	IC0116W01
MDTA19BMP0146	1	ON	NO	ACT	4.4	2.35	0	1/1/2009	1/1/2015	IC0116W02
MDTA19BMP0147	1	ON	NO	ACT	3.04	2.75	0.99	1/1/2009	1/1/2015	IC0118W01
MDTA19BMP0148	1	ON	NO	ACT	2.72	2.71	0.05	1/1/2009	1/1/2015	IC0118W01A
MDTA19BMP0149	1	ON	NO	ACT	1.33	1.18	1	1/1/2009	1/1/2015	IC0121W01
MDTA19BMP0150	1	ON	NO	ACT	0.92	0.91	0.18	1/1/2009	1/1/2015	IC0121W01A

MDTA19BMP0151	1	ON	NO	ACT	79.57	22.43	0	1/1/2009	1/1/2015	IC0121W02
MDTA19BMP0152	1	ON	NO	ACT	0.95	0.65986722	0.31818182	1/1/2009	9/11/2015	IC0128E01
MDTA19BMP0153	1	ON	NO	ACT	0.91	0.57	0.31818182	1/1/2009	9/11/2015	IC0128M01
MDTA19BMP0154	1	ON	NO	ACT	0.88	0.49	0.18181818	1/1/2009	9/11/2015	IC0129E02
MDTA19BMP0155	1	ON	NO	ACT	0.72	0.39	0.18181818	1/1/2009	9/11/2015	IC0129M02
MDTA19BMP0156	1	ON	NO	ACT	3.24	2.12	1	1/1/2009	1/1/2015	IC0131E01
MDTA19BMP0157	1	ON	NO	ACT	0	0.00	0.08	1/1/2009	1/1/2015	IC0131E01A
MDTA19BMP0158	1	ON	NO	ACT	3.76	1.91	0.99	1/1/2009	1/1/2015	IC0131W01
MDTA19BMP0159	1	ON	NO	ACT	0	0.00	0.06	1/1/2009	1/1/2015	IC0131W01A
MDTA19BMP0160	1	ON	NO	ACT	0.52	0.23	1	1/1/2009	9/11/2015	IC0133E03
MDTA19BMP0161	1	ON	NO	ACT	0	0.00	1	1/1/2009	9/11/2015	IC0133W01
MDTA19BMP0162	1	ON	NO	ACT	0.71	0.30	1	1/1/2009	9/11/2015	IC0133W04
MDTA19BMP0163	1	ON	NO	ACT	1.11	0.55	0.76439215	1/1/2009	9/11/2015	IC0137E01
MDTA19BMP0164	1	ON	NO	ACT	0.9	1.02	0.78184206	1/1/2009	9/11/2015	IC0137M01
MDTA19BMP0165	1	ON	NO	ACT	0.09	0.03	1	1/1/2009	9/11/2015	IC0137M02
MDTA19BMP0166	1	ON	NO	ACT	0.97	0.47	0.77131469	1/1/2009	9/11/2015	IC0137W01
MDTA19BMP0167	1	ON	NO	ACT	1.93397714	1.74	0	1/1/2009	1/1/2009	IC0138W01
MDTA19BMP0168	1	ON	NO	ACT	0.65	0.34	1	1/1/2009	9/11/2015	IC0139E02
MDTA19BMP0169	1	ON	NO	ACT	0.78	0.55	0.78705422	1/1/2009	9/11/2015	IC0139M01
MDTA19BMP0170	1	ON	NO	ACT	0.35	0.22	1	1/1/2009	9/11/2015	IC0139W02
MDTA19BMP0171	1	ON	NO	ACT	1.93	1.96	1	1/1/2009	1/1/2009	IC0139W03
MDTA19BMP0172	1	ON	NO	ACT	0.85	0.45	1	1/1/2009	9/11/2015	IC0140E05
MDTA19BMP0173	1	ON	NO	ACT	0.91	0.66	1	1/1/2009	9/11/2015	IC0140M01
MDTA19BMP0174	1	ON	NO	ACT	0.3	0.09	1	1/1/2009	9/11/2015	IC0140W02
MDTA19BMP0175	1	ON	NO	ACT	0.1	0.04	1	1/1/2009	9/11/2015	IC0140W03
MDTA19BMP0176	1	ON	NO	ACT	0.25	0.12	1	1/1/2009	9/11/2015	IC0141E05
MDTA19BMP0177	1	ON	NO	ACT	0.43	0.18	1	1/1/2009	9/11/2015	IC0141E06
MDTA19BMP0178	1	ON	NO	ACT	0.38	0.2	1	1/1/2009	9/11/2015	IC0141E09
MDTA19BMP0179	1	ON	NO	ACT	0.24	0.11	1	1/1/2009	9/11/2015	IC0141E10
MDTA19BMP0180	1	ON	NO	ACT	0.21	0.15	1	1/1/2009	9/11/2015	IC0141M05
MDTA19BMP0181	1	ON	NO	ACT	0.46	0.34	1	1/1/2009	9/11/2015	IC0141M10
MDTA19BMP0182	1	ON	NO	ACT	0.21	0.15	1	1/1/2009	9/11/2015	IC0141M11
MDTA19BMP0183	1	ON	NO	ACT	0.33	0.11	1	1/1/2009	9/11/2015	IC0141W05
MDTA19BMP0184	1	ON	NO	ACT	0.18	0.04	1	1/1/2009	9/11/2015	IC0141W07
MDTA19BMP0185	1	ON	NO	ACT	0.22	0.12	1	1/1/2009	9/11/2015	IC0142E01
MDTA19BMP0186	1	ON	NO	ACT	0.16	0.08	1	1/1/2009	9/11/2015	IC0142E02
MDTA19BMP0187	1	ON	NO	ACT	0.22	0.11	1	1/1/2009	9/11/2015	IC0142E04
MDTA19BMP0188	1	ON	NO	ACT	0.31	0.16	1	1/1/2009	9/11/2015	IC0142E05
MDTA19BMP0189	1	ON	NO	ACT	0.11	0.06	1	1/1/2009	9/11/2015	IC0142M01
MDTA19BMP0190	1	ON	NO	ACT	0.47	0.35	1	1/1/2009	9/11/2015	IC0142M02
MDTA19BMP0191	1	ON	NO	ACT	0.17	0.13	1	1/1/2009	9/11/2015	IC0142M03
MDTA19BMP0192	1	ON	NO	ACT	0.11	0.09	1	1/1/2009	9/11/2015	IC0142M04
MDTA19BMP0193	1	ON	NO	ACT	0.25	0.18	1	1/1/2009	9/11/2015	IC0142M06
MDTA19BMP0194	1	ON	NO	ACT	0.14	0.08	1	1/1/2009	9/11/2015	IC0142M07
MDTA19BMP0195	1	ON	NO	ACT	0.5	0.11	1	1/1/2009	9/11/2015	IC0142W01
MDTA19BMP0196	1	ON	NO	ACT	0.11	0.03	1	1/1/2009	9/11/2015	IC0142W04
MDTA19BMP0197	1	ON	NO	ACT	0.13	0.07	1	1/1/2009	9/11/2015	IC0143E01
MDTA19BMP0198	1	ON	NO	ACT	0.28	0.15	1	1/1/2009	9/11/2015	IC0143E08
MDTA19BMP0199	1	ON	NO	ACT	0.15	0.09	1	1/1/2009	9/11/2015	IC0143M01
MDTA19BMP0200	1	ON	NO	ACT	0.25	0.14	1	1/1/2009	9/11/2015	IC0143M06
MDTA19BMP0201	1	ON	NO	ACT	0.48	0.23	1	1/1/2009	9/11/2015	IC0143W01

MDTA19BMP0202	1	ON	NO	ACT	0.32	0.2	1	1/1/2009	9/11/2015	IC0143W02
MDTA19BMP0203	1	ON	NO	ACT	0.42	0.22	1	1/1/2009	9/11/2015	IC0144E01
MDTA19BMP0204	1	ON	NO	ACT	0.26	0.14	1	1/1/2009	9/11/2015	IC0144M01
MDTA19BMP0205	1	ON	NO	ACT	0.28	0.19	1	1/1/2009	9/11/2015	IC0144W06
MDTA19BMP0206	1	ON	NO	ACT	0.54	0.37	1	1/1/2009	9/11/2015	IC0144W07
MDTA19BMP0207	1	ON	NO	ACT	0.26	0.02	1	1/1/2009	9/11/2015	IC0145E05
MDTA19BMP0208	1	ON	NO	ACT	0.71	0.32	1	1/1/2009	9/11/2015	IC0145E06
MDTA19BMP0209	1	ON	NO	ACT	0.38	0.16	1	1/1/2009	9/11/2015	IC0145E07
MDTA19BMP0210	1	ON	NO	ACT	0.26	0.15	1	1/1/2009	9/11/2015	IC0145M04
MDTA19BMP0211	1	ON	NO	ACT	0.84	0.47	1	1/1/2009	9/11/2015	IC0145M05
MDTA19BMP0212	1	ON	NO	ACT	0.41	0.25	1	1/1/2009	9/11/2015	IC0145M06
MDTA19BMP0213	1	ON	NO	ACT	0.2	0.15	1	1/1/2009	9/11/2015	IC0145W01
MDTA19BMP0214	1	ON	NO	ACT	0.19	0.14	1	1/1/2009	9/11/2015	IC0145W04
MDTA19BMP0215	1	ON	NO	ACT	0.53	0.29	1	1/1/2009	9/11/2015	IC0145W05
MDTA19BMP0216	1	ON	NO	ACT	0.2	0.08	1	1/1/2009	9/11/2015	IC0146E02
MDTA19BMP0217	1	ON	NO	ACT	0.41	0.15	1	1/1/2009	9/11/2015	IC0146E03
MDTA19BMP0218	1	ON	NO	ACT	0.11	0.04	1	1/1/2009	9/11/2015	IC0146E04
MDTA19BMP0219	1	ON	NO	ACT	0.34	0.21	1	1/1/2009	1/1/2015	IC0146M01
MDTA19BMP0220	1	ON	NO	ACT	0.13	0.08	1	1/1/2009	9/11/2015	IC0146M02
MDTA19BMP0221	1	ON	NO	ACT	0.01	0.01	1	1/1/2009	9/11/2015	IC0146M03
MDTA19BMP0222	1	ON	NO	ACT	0	0	0	1/1/2009	9/11/2015	IC0146M04
MDTA19BMP0223	1	ON	NO	ACT	0.73	0.4	1	1/1/2009	9/11/2015	IC0146W01
MDTA19BMP0224	1	ON	NO	ACT	0.08	0.06	1	1/1/2009	9/11/2015	IC0146W02
MDTA19BMP0225	1	ON	NO	ACT	0	0	0	1/1/2009	1/1/2009	IC0146W03
MDTA19BMP0226	1	ON	NO	ACT	0	0	1	1/1/2009	1/1/2009	IC0146W04
MDTA19BMP0227	1	ON	NO	ACT	0	0	1	1/1/2009	1/1/2009	IC0146W05
MDTA19BMP0228	1	ON	NO	ACT	0.06	0.01	1	1/1/2009	9/11/2015	IC0149E01
MDTA19BMP0229	1	ON	NO	ACT	0.09	0.01	1	1/1/2009	9/11/2015	IC0149E02
MDTA19BMP0230	1	ON	NO	ACT	0.97	0.07	1	1/1/2009	9/11/2015	IC0149E03
MDTA19BMP0231	1	ON	NO	ACT	3.5	0.66	1	1/1/2009	9/11/2015	IC0149M01
MDTA19BMP0232	1	ON	NO	ACT	10.27	0.63	0	1/1/2009	9/11/2015	IC0149M02
MDTA19BMP0233	1	ON	NO	ACT	0.28	0.09	1	1/1/2009	9/11/2015	IC0149W01
MDTA19BMP0234	1	ON	NO	ACT	0.54	0.21	1	1/1/2009	9/11/2015	IC0149W02
MDTA19BMP0235	1	ON	NO	ACT	1.02	0.50273481	1	1/1/2009	9/11/2015	IC0150M01
MDTA19BMP0236	1	ON	NO	ACT	1.41	0.45	1	1/1/2009	9/11/2015	IC0150W01
MDTA19BMP0237	1	ON	NO	ACT	0.84	0.17	1	1/1/2009	9/11/2015	IC0151E01
MDTA19BMP0238	1	ON	NO	ACT	0.36	0.18	1	1/1/2009	9/11/2015	IC0151M01
MDTA19BMP0239	1	ON	NO	ACT	0.49	0.25	1	1/1/2009	9/11/2015	IC0151M08
MDTA19BMP0240	1	ON	NO	ACT	0.4	0.16	1	1/1/2009	9/11/2015	IC0151W01
MDTA19BMP0241	1	ON	NO	ACT	0.65	0	1	1/1/2009	9/11/2015	IC0151W08
MDTA19BMP0242	1	ON	NO	ACT	0.36	0.11	1	1/1/2009	9/11/2015	IC0151W09
MDTA19BMP0243	1	ON	NO	ACT	0.74	0.3	1	1/1/2009	9/11/2015	IC0152E02
MDTA19BMP0244	1	ON	NO	ACT	0.85	0.45	1	1/1/2009	9/11/2015	IC0152M01
MDTA19BMP0245	1	ON	NO	ACT	0.77	0.21	1	1/1/2009	9/11/2015	IC0152W02
MDTA19BMP0246	1	ON	NO	ACT	0.73	0.39	1	1/1/2009	9/11/2015	IC0153E01
MDTA19BMP0247	1	ON	NO	ACT	0.16	0.09	1	1/1/2009	9/11/2015	IC0153M01
MDTA19BMP0248	1	ON	NO	ACT	0.48	0.28	1	1/1/2009	9/11/2015	IC0153M04
MDTA19BMP0249	1	ON	NO	ACT	0.48	0.27	1	1/1/2009	9/11/2015	IC0153M05
MDTA19BMP0250	1	ON	NO	ACT	0.88	0.36	1	1/1/2009	9/11/2015	IC0154E01
MDTA19BMP0251	1	ON	NO	ACT	0.47	0.17	1	1/1/2009	9/11/2015	IC0154E08
MDTA19BMP0252	1	ON	NO	ACT	0.52	0.27	1	1/1/2009	9/11/2015	IC0154M01

MDTA19BMP0253	1	ON	NO	ACT	0.11	0.06	1	1/1/2009	9/11/2015	IC0154M03
MDTA19BMP0254	1	ON	NO	ACT	0.18	0.09	1	1/1/2009	9/11/2015	IC0154M05
MDTA19BMP0255	1	ON	NO	ACT	0.16	0.08	1	1/1/2009	9/11/2015	IC0154M08
MDTA19BMP0256	1	ON	NO	ACT	0.48	0.26	1	1/1/2009	9/11/2015	IC0154M09
MDTA19BMP0257	1	ON	NO	ACT	0.06	0	1	1/1/2009	9/11/2015	IC0154W02
MDTA19BMP0258	1	ON	NO	ACT	0.06	0.21	1	1/1/2009	9/11/2015	IC0154W03
MDTA19BMP0259	1	ON	NO	ACT	0.18	0.08	1	1/1/2009	9/11/2015	IC0155E01
MDTA19BMP0260	1	ON	NO	ACT	0.42	0.11	1	1/1/2009	9/11/2015	IC0155E04
MDTA19BMP0261	1	ON	NO	ACT	0.59	0.22	1	1/1/2009	9/11/2015	IC0155E05
MDTA19BMP0262	1	ON	NO	ACT	0.09	0.03	1	1/1/2009	9/11/2015	IC0155M06
MDTA19BMP0263	1	ON	NO	ACT	0.28	0.1	1	1/1/2009	9/11/2015	IC0155M07
MDTA19BMP0264	1	ON	NO	ACT	0.44	0.22	1	1/1/2009	9/11/2015	IC0155M08
MDTA19BMP0265	1	ON	NO	ACT	0.49	0.15	1	1/1/2009	9/11/2015	IC0155W01
MDTA19BMP0266	1	ON	NO	ACT	0.69	0.11	1	1/1/2009	9/11/2015	IC0155W02
MDTA19BMP0267	1	ON	NO	ACT	16.67	1.62	1	5/1/2009	2/11/2013	IC0159E01
MDTA19BMP0268	1	ON	NO	ACT	10.19	3.6	1	5/1/2009	2/11/2013	IC0159E02
MDTA19BMP0269	1	ON	NO	ACT	17.68	7.06	1	5/1/2009	2/11/2013	IC0159W01
MDTA19BMP0270	1	ON	NO	ACT	24.97	15	1	5/1/2009	2/11/2013	IC0161E01
MDTA19BMP0271	1	ON	NO	ACT	19.59	3.94	1	5/1/2009	2/11/2013	IC0165E01
MDTA19BMP0272	1	ON	NO	ACT	17.61	5.02	1	4/1/2009	2/11/2013	IC0170W01
MDTA19BMP0273	1	ON	NO	ACT	13.75	8.11	1	4/1/2009	2/11/2013	IC0172W01
MDTA19BMP0274	1	ON	NO	ACT	17.47	6.26	1	3/1/2011	2/11/2013	IC0185E01
MDTA19BMP0275	1	ON	NO	ACT	6.67	3.1	1	5/1/2009	2/11/2013	IC0185E02
MDTA19BMP0276	1	ON	NO	ACT	21.49	6.73	1	3/1/2011	2/11/2013	IC0185W01
MDTA19BMP0277	1	ON	NO	ACT	20.7	5.74	1	5/1/2009	2/11/2013	IC0185W03
MDTA19BMP0278	1	ON	NO	ACT	33.35	11.7	1	3/1/2011	2/11/2013	IC0186W01
MDTA19BMP0279	1	ON	NO	ACT	33.24	13.98	1	6/1/2010	2/11/2013	IC0191E01
MDTA19BMP0280	1	ON	NO	ACT	0	0	1		9/11/2017	IC0195E01
MDTA19BMP0281	1	ON	NO	ACT	0	0	1		9/11/2017	IC0195W01
MDTA19BMP0282	1	ON	NO	ACT	0	0	1		9/11/2017	IC0196A01
MDTA19BMP0283	1	ON	NO	ACT	0	0	1		9/11/2017	IC0196S01
MDTA19BMP0284	1	ON	NO	ACT	0	0	1		9/11/2017	IC0197A01
MDTA19BMP0285	1	ON	NO	ACT	0	0	0		9/11/2017	IC0197A02
MDTA19BMP0286	1	ON	NO	ACT	0	0	1		9/11/2017	IC0197A03
MDTA19BMP0287	1	ON	NO	ACT	0	0	1		9/11/2017	IC0197A04
MDTA19BMP0288	1	ON	NO	ACT	0	0	1		9/11/2017	IC0197M01
MDTA19BMP0289	1	ON	NO	ACT	0	0	1		9/11/2017	IC0197N01
MDTA19BMP0290	1	ON	NO	ACT	0	0	1		9/11/2017	IC0197N02
MDTA19BMP0291	1	ON	NO	ACT	0	0	1		9/11/2017	IC0197W01
MDTA19BMP0292	1	ON	NO	ACT	0	0	1		9/11/2017	IC0198A01
MDTA19BMP0293	1	ON	NO	ACT	0	0	1		9/11/2017	IC0199W01
MDTA19BMP0294	1	ON	NO	ACT	73.64	8.16	1	8/1/2009	1/1/2014	IC0200F01
MDTA19BMP0295	1	ON	NO	ACT	0	0	1		1/1/2017	IC0200W01
MDTA19BMP0296	1	ON	NO	ACT	0	0	1		1/1/2017	IC0200W02
MDTA19BMP0297	1	ON	NO	ACT	1.03	0.59	0.79	5/1/2013	1/1/2014	KB0004M01
MDTA19BMP0298	1	ON	NO	ACT	1.94	0.79	0.84	5/1/2013	1/1/2014	KB0005M01
MDTA19BMP0299	1	ON	NO	ACT	1.21	0.42	0.99	5/1/2013	1/1/2014	KB0010M01
MDTA19BMP0300	1	ON	NO	ACT	1.14	0.48	0.99	5/1/2013	1/1/2014	KB0012M01
MDTA19BMP0301	1	ON	NO	ACT	23.15	14.02	1	3/24/1995	3/24/1995	KB0455S01
MDTA19BMP0302	1	ON	NO	ACT	0.5	0.3283789	1	10/1/2005	10/1/2005	KB0464A01
MDTA19BMP0303	1	ON	NO	ACT	0.48	0.36	1	10/1/2005	10/1/2005	KB0464A02

MDTA19BMP0305	1	ON	NO	ACT	0.45	0.15	1	5/1/2013	1/1/2014	KB0465F01
MDTA19BMP0306	1	ON	NO	ACT	0.67	0.48	1	10/21/2004	10/21/2004	KB0467F01
MDTA19BMP0307	1	ON	NO	ACT	1.02	0.48	0.92	5/1/2013	1/1/2014	KB0468E01
MDTA19BMP0308	1	ON	NO	ACT	0.71	0.43	1	11/15/2011	1/1/2013	KB0469A01
MDTA19BMP0309	1	ON	NO	ACT	0.54	0.32	1	11/15/2011	1/1/2013	KB0470A01
MDTA19BMP0310	1	ON	NO	ACT	0.86	0.68	1	10/21/2004	10/21/2004	KB0470F01
MDTA19BMP0311	1	ON	NO	ACT	1.18	0.59	1	11/15/2011	1/1/2013	KB0472A01
MDTA19BMP0312	1	ON	NO	ACT	0.71	0.46	1	11/15/2011	1/1/2013	KB0472A02
MDTA19BMP0313	1	ON	NO	ACT	0.17	0.12	1	4/1/2006	9/14/2007	KB0475A01
MDTA19BMP0314	1	ON	NO	ACT	3.43	1.50	1	3/20/2015	3/20/2015	KB0493M01
MDTA19BMP0315	1	ON	NO	ACT	0.66	0.28	1		1/1/2005	KB0496M01
MDTA19BMP0316	1	ON	NO	ACT	44.1	10.73	1	1/1/2009	9/15/2011	KB0501E01
MDTA19BMP0317	1	ON	NO	ACT	1.32	0.54	1		1/1/2005	KB0503A01
MDTA19BMP0318	1	ON	NO	ACT	0.59	0.39	0.47	5/1/2013	1/1/2014	KB0503W01
MDTA19BMP0319	1	ON	NO	ACT	0.46	0.22	0.55	5/1/2013	1/1/2014	KB0503W02
MDTA19BMP0320	1	ON	NO	ACT	2.18	1.22	0.72	5/1/2013	1/1/2014	KB0505M01
MDTA19BMP0321	1	ON	NO	ACT	14.46	11.80	1	4/11/2007	1/1/2013	KH0620S01
MDTA19BMP0322	1	ON	NO	ACT	20.55	15.75	1	4/11/2007	1/1/2013	KH0626N01
MDTA19BMP0323	1	ON	NO	ACT	6.67	4.24	1	8/1/2006	1/1/2011	KH0629S01
MDTA19BMP0324	1	ON	NO	ACT	8.72	5.14	1	8/1/2006	1/1/2011	KH0630S01
MDTA19BMP0325	1	ON	NO	ACT	14.11	6.08	1	8/1/2006	1/1/2011	KH0633S01
MDTA19BMP0326	1	ON	NO	ACT	8.65	8.22	1	4/30/2008	4/30/2008	KH0636S01
MDTA19BMP0327	1	ON	NO	ACT	7.74	4.91	1	8/1/2006	1/1/2013	KH0637N01
MDTA19BMP0328	1	ON	NO	ACT	7.72	5.21	1	4/30/2008	4/30/2008	KH0637S01
MDTA19BMP0329	1	ON	NO	ACT	10.23	5.83	1	1/1/2014	1/1/2016	KH0637S02
MDTA19BMP0330	1	ON	NO	ACT	9.35	5.31	1	8/1/2006	1/1/2011	KH0639N01
MDTA19BMP0331	1	ON	NO	ACT	1.32	0.44	1	8/1/2006	1/1/2013	KH0640N01
MDTA19BMP0332	1	ON	NO	ACT	25.91	16.91	1	8/1/2006	1/1/2011	KH0642N01
MDTA19BMP0333	1	ON	NO	ACT	20.99	18.25	1	12/7/2006	4/15/2013	KH0649S01
MDTA19BMP0334	1	ON	NO	ACT	7.31	6.56	1	12/7/2006	4/15/2013	KH0652S01
MDTA19BMP0335	1	ON	NO	ACT	22.05	18.48	1	12/7/2006	4/15/2013	KH0655N01
MDTA19BMP0336	1	ON	NO	ACT	6.63	4.99	0	12/7/2006	4/15/2013	KH0658N01
MDTA19BMP0337	1	ON	NO	ACT	9.46	6.6	1	12/7/2006	4/15/2013	KH0663N01
MDTA19BMP0338	1	ON	NO	ACT	27.73	12.15	1	5/30/2011	6/3/2016	KH0667N01
MDTA19BMP0339	1	ON	NO	ACT	16.93	5.86	1	5/30/2011	11/9/2016	KH0668S01
MDTA19BMP0340	1	ON	NO	ACT	16.17	9.94	1	5/30/2011	6/3/2016	KH0669N01
MDTA19BMP0341	1	ON	NO	ACT	15.62	7.91	1	5/30/2011	1/1/2017	KH0671N01
MDTA19BMP0342	1	ON	NO	ACT	5.08	3.71	1	5/30/2011	1/1/2017	KH0672S01
MDTA19BMP0343	1	ON	NO	ACT	33.91	21.78	1	4/1/2007	9/4/2018	KH0677N01
MDTA19BMP0344	1	ON	NO	ACT	13.94	3.99	1	4/1/2007	7/16/2018	KH0682N01
MDTA19BMP0345	1	ON	NO	ACT	23.98	5.49	1	4/1/2007	7/16/2018	KH0684S01
MDTA19BMP0346	1	ON	NO	ACT	1.84	0.86	0.5	7/12/1990	7/12/1990	KH0689N01
MDTA19BMP0347	1	ON	NO	ACT	1.67	0.68	0.57	7/12/1990	7/12/1990	KH0692M01
MDTA19BMP0348	1	ON	NO	ACT	3.45	1.45	0.07	7/12/1990	7/12/1990	KH0693M01
MDTA19BMP0349	1	ON	NO	ACT	2.2	1.75	0	7/12/1990	7/12/1990	KH0696M01
MDTA19BMP0350	1	ON	KH0696S01	ACT	1.58	0.85	1	4/1/2015	12/23/2016	KH0696S01U
MDTA19BMP0351	1	ON	NO	ACT	2.1	0.72	0.74	7/12/1990	7/12/1990	KH0700S01
MDTA19BMP0352	1	ON	KH0705M01	ACT	0.7	0.50	0.82	4/1/2015	3/19/2018	KH0705M01U
MDTA19BMP0353	1	ON	KH0706M01	ACT	1.59	0.96	1	4/1/2015	3/19/2018	KH0706M01U
MDTA19BMP0354	1	ON	KH0706M02	ACT	0	0.00	0	4/1/2015	3/19/2018	KH0706M02U
MDTA19BMP0355	1	ON	KH0709S01	ACT	1.74	0.46	1	4/1/2015	12/23/2016	KH0709S01U

MDTA19BMP0356	1	ON	KH0713M01	ACT	0.73	0.50	0.92	4/1/2015	1/1/2016	KH0713M01U
MDTA19BMP0357	1	ON	NO	ACT	1.01	0.42	1		1/1/2005	KH0713M02
MDTA19BMP0358	1	ON	NO	ACT	1.52	0.54	0.07	7/12/1990	7/12/1990	KH0713N01
MDTA19BMP0359	1	ON	NO	ACT	1.13	0.92	0.67	7/12/1990	7/12/1990	KH0714M01
MDTA19BMP0360	1	ON	NO	ACT	4.79	0.82	0.16	7/12/1990	7/12/1990	KH0714S01
MDTA19BMP0361	1	ON	KH0718S01	ACT	2.3	1.15	0.76	11/16/2015	12/23/2016	KH0718S01U
MDTA19BMP0362	1	ON	NO	ACT	0.8	0.39	0.77	7/12/1990	7/12/1990	KH0720S01
MDTA19BMP0363	1	ON	NO	ACT	2.61	1.08	0.31	7/12/1990	7/12/1990	KH0723S01
MDTA19BMP0364	1	ON	NO	ACT	2.49	1.48	0.5	7/12/1990	7/12/1990	KH0724N01
MDTA19BMP0365	1	ON	NO	ACT	0.44	0.11	1		1/1/2019	KH0733O01
MDTA19BMP0366	1	ON	NO	ACT	9.07	1.32	1.1	7/12/1990	7/12/1990	KH0735S01
MDTA19BMP0367	1	ON	NO	ACT	1.7	1.2	1	2/1/2006	7/31/2008	KH0740O01
MDTA19BMP0368	1	ON	NO	ACT	7.39	0.55	0.5	7/12/1990	7/12/1990	KH0741S01
MDTA19BMP0369	1	ON	NO	ACT	1.99	0.79	0.25	7/12/1990	7/12/1990	KH0742N01
MDTA19BMP0370	1	ON	NO	ACT	3.09	1.66	0.04	12/23/1997	12/23/1997	KH0742O01
MDTA19BMP0371	1	ON	NO	ACT	0.97	0.36	0.48	7/12/1990	7/12/1990	KH0743N01
MDTA19BMP0372	1	ON	NO	ACT	11.64	0.67	0.48	7/12/1990	7/12/1990	KH0743N02
MDTA19BMP0373	1	ON	NO	ACT	0.46	0.29	0.89	7/12/1990	7/12/1990	KH0747S01
MDTA19BMP0374	1	ON	NO	ACT	12.67	1.87	0.75	7/12/1990	7/12/1990	KH0763N01
MDTA19BMP0375	1	ON	NO	ACT	10.19	0.88	1	3/7/2007	3/7/2007	KH0763S01
MDTA19BMP0376	1	ON	NO	ACT	2.81	0.46	0.42	7/12/1990	7/12/1990	KH0764S01
MDTA19BMP0377	1	ON	NO	ACT	1.72	0.94	0.55	7/12/1990	7/12/1990	KH0771N01
MDTA19BMP0378	1	ON	NO	ACT	2.83	0.27	0.42	7/12/1990	7/12/1990	KH0771S01
MDTA19BMP0379	1	ON	NO	ACT	0.93	0.54	1		1/1/2005	KH0773M01
MDTA19BMP0380	1	ON	NO	ACT	0.89	0.66	1		1/1/2005	KH0777M01
MDTA19BMP0381	1	ON	NO	ACT	1.55	1.13	1		1/1/2005	KH0778M01
MDTA19BMP0382	1	ON	NO	ACT	1.4	0.67	1		1/1/2005	KH0786M01
MDTA19BMP0383	1	ON	NO	ACT	0.98	0.64	1		1/1/2005	KH0787S01
MDTA19BMP0384	1	ON	NO	ACT	1.82	1.44	1		1/1/2005	KH0798M01
MDTA19BMP0385	1	ON	NO	ACT	2.02	1.46	1		1/1/2005	KH0800M01
MDTA19BMP0386	1	ON	NO	ACT	2.05	0.64	1	3/5/2013	10/5/2015	KH0800N01
MDTA19BMP0387	1	ON	NO	ACT	1.15	0.5	1.8	3/5/2013	10/5/2015	KH0803S01
MDTA19BMP0388	1	ON	NO	ACT	0.19	0.08	1	8/15/2012	1/1/2013	KH0815F01
MDTA19BMP0389	1	ON	NO	ACT	0.46	0.25	1	8/15/2012	1/1/2013	KH0816F01
MDTA19BMP0390	1	ON	NO	ACT	0.33	0.17	1	8/15/2012	1/1/2013	KH0816F02
MDTA19BMP0391	1	ON	NO	ACT	0.41	0.29	1	8/15/2012	1/1/2013	KH0816F03
MDTA19BMP0392	1	ON	NO	ACT	0.28	0.15	1	8/15/2012	1/1/2013	KH0816F04
MDTA19BMP0393	1	ON	NO	ACT	0.31	0.17	1	8/15/2012	1/1/2013	KH0816F05
MDTA19BMP0394	1	ON	NO	ACT	0.34	0.27	1	8/15/2012	1/1/2013	KH0816F06
MDTA19BMP0395	1	ON	NO	ACT	0.46	0.24	1	8/15/2012	1/1/2013	KH0816F07
MDTA19BMP0396	1	ON	NO	ACT	0.21	0.12	1	8/15/2012	1/1/2013	KH0817F01
MDTA19BMP0397	1	ON	NO	ACT	0.43	0.22	1	8/15/2012	1/1/2013	KH0817F02
MDTA19BMP0398	1	ON	NO	ACT	0.5	0.40	1	8/15/2012	1/1/2013	KH0817F03
MDTA19BMP0399	1	ON	NO	ACT	0.38	0.18	1	8/15/2012	1/1/2013	KH0817F04
MDTA19BMP0400	1	ON	NO	ACT	0.3	0.24	1	8/15/2012	1/1/2013	KH0817F05
MDTA19BMP0401	1	ON	NO	ACT	0.21	0.13	1	8/15/2012	1/1/2013	KH0817F06
MDTA19BMP0402	1	ON	NO	ACT	1.69	0.54	1	12/1/2006	1/1/2007	KH0817S01
MDTA19BMP0403	1	ON	NO	ACT	0.32	0.24	1	8/15/2012	1/1/2013	KH0818F01
MDTA19BMP0404	1	ON	NO	ACT	0.4	0.33	1	8/15/2012	1/1/2013	KH0818F02
MDTA19BMP0405	1	ON	NO	ACT	0.33	0.27	1	8/15/2012	1/1/2013	KH0818F03
MDTA19BMP0406	1	ON	NO	ACT	0.46	0.40	1	8/15/2012	1/1/2013	KH0818F04

MDTA19BMP0407	1	ON	NO	ACT	0.3	0.24	1	8/15/2012	1/1/2013	KH0818F05
MDTA19BMP0408	1	ON	NO	ACT	7.05	6.49	0	11/1/1989	1/1/1990	KH0818O01
MDTA19BMP0409	1	ON	NO	ACT	0.15	0.10	1	8/15/2012	1/1/2013	KH0819F01
MDTA19BMP0410	1	ON	NO	ACT	1.58	0.97	1		1/1/2005	KH0828M01
MDTA19BMP0411	1	ON	NO	ACT	1.38	0.93	1		1/1/2005	KH0830M01
MDTA19BMP0412	1	ON	NO	ACT	1.79	1.1	1		1/1/2005	KH0841S01
MDTA19BMP0413	1	ON	NO	ACT	1.55	1.02	1		1/1/2005	KH0842M01
MDTA19BMP0414	1	ON	NO	ACT	1.81	1.08	0.76	1/13/2014	1/1/2016	KH0843M01
MDTA19BMP0415	1	ON	NO	ACT	11.25	4.57	1	7/1/2001	1/1/2003	KH0845N01
MDTA19BMP0416	1	ON	NO	ACT	11.43	4.01	1	7/1/2001	1/1/2003	KH0847S01
MDTA19BMP0417	1	ON	NO	ACT	2.02	1.3	0.73	1/13/2014	2/25/2017	KH0849M01
MDTA19BMP0418	1	ON	NO	ACT	1.79	1.22	1	1/13/2014	1/1/2016	KH0850M01
MDTA19BMP0419	1	ON	NO	ACT	1.01	0.64	0.85	1/13/2014	1/1/2016	KH0853M01
MDTA19BMP0420	1	ON	NO	ACT	0.59	0.23	1	1/13/2014	5/31/2017	KH0853N01
MDTA19BMP0421	1	ON	NO	ACT	0.56	0.34	0.64	1/13/2014	5/31/2017	KH0854M01
MDTA19BMP0422	1	ON	NO	ACT	1.34	0.91	0.69	1/13/2014	1/1/2016	KH0854M02
MDTA19BMP0423	1	ON	NO	ACT	0.36	0.23	0.56	1/13/2014	5/31/2017	KH0854M03
MDTA19BMP0424	1	ON	NO	ACT	1.5	1.06	0.53	1/13/2014	1/1/2016	KH0855M01
MDTA19BMP0425	1	ON	NO	ACT	1.62	0.97	0.95	1/13/2014	1/1/2018	KH0857M01
MDTA19BMP0426	1	ON	NO	ACT	1.53	1.02	0.93	1/13/2014	5/31/2017	KH0858M01
MDTA19BMP0427	1	ON	NO	ACT	1.41	0.91	1	1/13/2014	6/1/2017	KH0860M01
MDTA19BMP0428	1	ON	NO	ACT	1.89	0.89	0.87	1/13/2014	1/1/2016	KH0862M01
MDTA19BMP0429	1	ON	NO	ACT	1.35	1.09	1		1/1/2005	KH0864M01
MDTA19BMP0430	1	ON	NO	ACT	1.58	0.99	0.54	1/13/2014	1/1/2015	KH0870M01
MDTA19BMP0431	1	ON	NO	ACT	1.69	1.12	1	1/13/2014	1/1/2015	KH0872M01
MDTA19BMP0432	1	ON	NO	ACT	1.87	1.32	0.89	1/13/2014	1/1/2015	KH0874M01
MDTA19BMP0433	1	ON	NO	ACT	1.29	0.84	1	1/13/2014	1/1/2015	KH0875M01
MDTA19BMP0434	1	ON	NO	ACT	1.52	0.92	1	1/13/2014	1/1/2015	KH0877M01
MDTA19BMP0435	1	ON	NO	ACT	1.16	0.71	0.72	1/13/2014	1/1/2015	KH0879M01
MDTA19BMP0436	1	ON	NO	ACT	0.84	0.55	1	1/13/2014	1/1/2015	KH0882M01
MDTA19BMP0437	1	ON	NO	ACT	1.13	0.78	0.57	1/13/2014	1/1/2015	KH0883M01
MDTA19BMP0438	1	ON	NO	ACT	1.68	1.01	0.98	1/13/2014	1/1/2016	KH0886M01
MDTA19BMP0439	1	ON	NO	ACT	0.94	0.6	1	1/13/2014	1/1/2015	KH0888M01
MDTA19BMP0440	1	ON	NO	ACT	0.97	0.64	1	1/13/2014	1/1/2015	KH0890M01
MDTA19BMP0441	1	ON	NO	ACT	0.85	0.58	0.97	1/13/2014	1/1/2015	KH0891M01
MDTA19BMP0442	1	ON	NO	ACT	0.44	0.16	1	1/13/2014	1/1/2015	KH0891S01
MDTA19BMP0443	1	ON	NO	ACT	1.08	0.74	0.59	1/13/2014	1/1/2015	KH0893M01
MDTA19BMP0444	1	ON	NO	ACT	1	0.76	0.86	1/13/2014	1/1/2016	KH0893M02
MDTA19BMP0445	1	ON	NO	ACT	1.76	1.14	0.51	1/13/2014	1/1/2016	KH0895M01
MDTA19BMP0446	1	ON	NO	ACT	1.53	1.16	0.5	1/13/2014	1/1/2015	KH0916M01
MDTA19BMP0447	1	ON	NO	ACT	1.98	1.28	0.6	1/13/2014	1/1/2015	KH0919M01
MDTA19BMP0448	1	ON	NO	ACT	7.58	4.54	1	9/21/1993	9/21/1993	KH0923O01
MDTA19BMP0449	1	ON	NO	ACT	20.25	8.06	1	9/21/1993	9/21/1993	KH0923O02
MDTA19BMP0450	1	ON	NO	ACT	2.15	1.87	1	10/15/2002	10/15/2002	KH0925M01
MDTA19BMP0451	1	ON	NO	ACT	7.85	5.25	1.25	11/27/1991	1/1/1993	KH0926O01
MDTA19BMP0452	1	ON	NO	ACT	14.87	8.69	0.5	9/21/1993	9/21/1993	KH0926O02
MDTA19BMP0453	1	ON	NO	ACT	13.61	7.85	1	9/21/1993	9/21/1993	KH0926O03
MDTA19BMP0454	1	ON	NO	ACT	0.49	0.19	1	3/25/2002	3/25/2002	KH0929N01
MDTA19BMP0455	1	ON	NO	ACT	8.23	1.06	0.5	11/27/1991	1/1/1993	KH0930N01
MDTA19BMP0456	1	ON	NO	ACT	0.7	0.50	0.6	12/1/2012	1/1/2014	KH0933M01
MDTA19BMP0457	1	ON	NO	ACT	0.91	0.71	1	12/1/2012	1/1/2014	KH0934M01

MDTA19BMP0458	1	ON	NO	ACT	16.35	2.96	0	11/27/1991	1/1/1993	KH0934S01
MDTA19BMP0459	1	ON	NO	ACT	0.72	0.45	0.7	12/1/2012	1/1/2014	KH0936M01
MDTA19BMP0460	1	ON	NO	ACT	0.67	0.44	0.75	12/1/2012	1/1/2014	KH0936M02
MDTA19BMP0461	1	ON	NO	ACT	0.62	0.43	1	12/1/2012	1/1/2014	KH0936M03
MDTA19BMP0462	1	ON	NO	ACT	0.73	0.50	0.65	12/1/2012	1/1/2014	KH0939M01
MDTA19BMP0463	1	ON	NO	ACT	0.53	0.37	1	12/1/2012	1/1/2014	KH0939M02
MDTA19BMP0464	1	ON	NO	ACT	0.7	0.50	0.6	12/1/2012	1/1/2014	KH0941M01
MDTA19BMP0465	1	ON	NO	ACT	1.03	0.68	0.5	12/1/2012	1/1/2014	KH0945M01
MDTA19BMP0466	1	ON	NO	ACT	0.94	0.60	0.9	12/1/2012	1/1/2014	KH0947M01
MDTA19BMP0467	1	ON	NO	ACT	0.95	0.60	1	12/1/2012	1/1/2014	KH0947M02
MDTA19BMP0468	1	ON	NO	ACT	0.6	0.48	0.5	12/1/2012	1/1/2014	KH0950M01
MDTA19BMP0469	1	ON	NO	ACT	0.72	0.48	0.8	12/1/2012	1/1/2014	KH0950M02
MDTA19BMP0470	1	ON	NO	ACT	0.22	0.17	1	8/15/2012	1/1/2013	KH0964F01
MDTA19BMP0471	1	ON	NO	ACT	0.21	0.14	1	8/15/2012	1/1/2013	KH0964F02
MDTA19BMP0472	1	ON	NO	ACT	0.23	0.18	1	8/15/2012	1/1/2013	KH0964F03
MDTA19BMP0473	1	ON	NO	ACT	0.23	0.19	1	8/15/2012	1/1/2013	KH0964F04
MDTA19BMP0474	1	ON	NO	ACT	0.21	0.18	1	8/15/2012	1/1/2013	KH0964F05
MDTA19BMP0475	1	ON	NO	ACT	0.19	0.14	1	8/15/2012	1/1/2013	KH0964F06
MDTA19BMP0476	1	ON	NO	ACT	0.2	0.15	1	8/15/2012	1/1/2013	KH0964F07
MDTA19BMP0477	1	ON	NO	ACT	0.21	0.15	1	8/15/2012	1/1/2013	KH0964F08
MDTA19BMP0478	1	ON	NO	ACT	0.19	0.12	1	8/15/2012	1/1/2013	KH0964F09
MDTA19BMP0479	1	ON	NO	ACT	0.32	0.23	1	8/15/2012	1/1/2013	KH0964F10
MDTA19BMP0480	1	ON	NO	ACT	0.18	0.09	1	8/15/2012	1/1/2013	KH0965F01
MDTA19BMP0481	1	ON	NO	ACT	0.21	0.15	1	8/15/2012	1/1/2013	KH0965F02
MDTA19BMP0482	1	ON	NO	ACT	0.23	0.18	1	8/15/2012	1/1/2013	KH0965F03
MDTA19BMP0483	1	ON	NO	ACT	0.23	0.18	1	8/15/2012	1/1/2013	KH0965F04
MDTA19BMP0484	1	ON	NO	ACT	0.2	0.15	1	8/15/2012	1/1/2013	KH0965F05
MDTA19BMP0485	1	ON	NO	ACT	0.38	0.29	1	8/15/2012	1/1/2013	KH0965F06
MDTA19BMP0486	1	ON	NO	ACT	0.22	0.14	1	8/15/2012	1/1/2013	KH0965F07
MDTA19BMP0487	1	ON	NO	ACT	0.23	0.16	1	8/15/2012	1/1/2013	KH0965F08
MDTA19BMP0488	1	ON	NO	ACT	0.43	0.31	1	8/15/2012	1/1/2013	KH0966F01
MDTA19BMP0489	1	ON	NO	ACT	0.17	0.09	1	8/15/2012	1/1/2013	KH0966F02
MDTA19BMP0490	1	ON	NO	ACT	0.23	0.19	1	8/15/2012	1/1/2013	KH0967F01
MDTA19BMP0491	1	ON	NO	ACT	0.16	0.12	1	8/15/2012	1/1/2013	KH0967F02
MDTA19BMP0492	1	ON	NO	ACT	0.42	0.31	1	8/15/2012	1/1/2013	KH0967F03
MDTA19BMP0493	1	ON	NO	ACT	0.14	0.09	1	8/15/2012	1/1/2013	KH0967F04
MDTA19BMP0494	1	ON	NO	ACT	0.45	0.35	1	8/15/2012	1/1/2013	KH0967F05
MDTA19BMP0495	1	ON	NO	ACT	0.33	0.24	1	8/15/2012	1/1/2013	KH0967F06
MDTA19BMP0496	1	ON	NO	ACT	1.41	0.58	1		1/1/2005	KH0970M01
MDTA19BMP0497	1	ON	NO	ACT	0.6	0.34	0.95	12/1/2012	1/1/2015	KH0973M01
MDTA19BMP0498	1	ON	NO	ACT	0.49	0.33	1	12/1/2012	1/1/2015	KH0973M02
MDTA19BMP0499	1	ON	NO	ACT	0.76	0.3	0.9	12/1/2012	1/1/2015	KH0973M03
MDTA19BMP0500	1	ON	NO	ACT	1.04	0.42	1	12/1/2012	1/1/2015	KH0975M01
MDTA19BMP0501	1	ON	NO	ACT	0.81	0.31	1	12/1/2012	1/1/2015	KH0975M02
MDTA19BMP0502	1	ON	NO	ACT	0.91	0.35	1	12/1/2012	1/1/2015	KH0976M01
MDTA19BMP0503	1	ON	NO	ACT	1.01	0.43	0.95	12/1/2012	1/1/2015	KH0976M02
MDTA19BMP0504	1	ON	NO	ACT	0.49	0.16	1	12/1/2012	1/1/2015	KH0979M01
MDTA19BMP0505	1	ON	NO	ACT	1.19	0.49	1	12/1/2012	1/1/2015	KH0979M02
MDTA19BMP0506	1	ON	NO	ACT	0.85	0.41	0.9	12/1/2012	1/1/2015	KH0980M01
MDTA19BMP0507	1	ON	NO	ACT	0.67	0.29	0.95	12/1/2012	1/1/2015	KH0982M01
MDTA19BMP0508	1	ON	NO	ACT	1.44	0.65	1		1/1/2005	KH0983M01

MDTA19BMP0509	1	ON	NO	ACT	1.17	0.48	0.9	12/1/2012	1/1/2014	KH0986M01
MDTA19BMP0510	1	ON	NO	ACT	0.73	0.3	0.9	12/1/2012	1/1/2014	KH0986M02
MDTA19BMP0511	1	ON	NO	ACT	0.78	0.16	0.9	12/1/2012	1/1/2014	KH0986M03
MDTA19BMP0512	1	ON	NO	ACT	0.63	0.22	0.8	12/1/2012	1/1/2014	KH0986M04
MDTA19BMP0513	1	ON	NO	ACT	0.65	0.33	1	12/1/2012	1/1/2014	KH0986M05
MDTA19BMP0514	1	ON	NO	ACT	1.02	0.44	1	12/1/2012	1/1/2014	KH0987M01
MDTA19BMP0515	1	ON	NO	ACT	0.83	0.40	1	12/1/2012	1/1/2014	KH0987M02
MDTA19BMP0516	1	ON	NO	ACT	0.93	0.39	1	12/1/2012	1/1/2014	KH0987M03
MDTA19BMP0517	1	ON	NO	ACT	0.81	0.33	1	12/1/2012	1/1/2014	KH0987M04
MDTA19BMP0518	1	ON	NO	ACT	1.04	0.47	0.85	12/1/2012	1/1/2014	KH0989M01
MDTA19BMP0519	1	ON	NO	ACT	0.91	0.42	0.6	12/1/2012	1/1/2015	KH0989M02
MDTA19BMP0520	1	ON	NO	ACT	0.97	0.58	1	12/1/2012	1/1/2014	KH0991M01
MDTA19BMP0521	1	ON	NO	ACT	1.03	0.58	1		1/1/2005	KH0992M01
MDTA19BMP0522	1	ON	NO	ACT	0.78	0.45	0.6	12/1/2012	1/1/2014	KH0994M01
MDTA19BMP0523	1	ON	NO	ACT	0.8	0.52	1	12/1/2012	1/1/2015	KH0998M02
MDTA19BMP0524	1	ON	NO	ACT	11.61	3.09	0.5	5/13/1997	1/1/2002	KH0998N01
MDTA19BMP0525	1	ON	NO	ACT	28.6	7.28	0.5	5/13/1997	1/1/2002	KH0999S01
MDTA19BMP0526	1	ON	NO	ACT	1.18	0.79	0.9	12/1/2012	1/1/2015	KH1000M01
MDTA19BMP0527	1	ON	NO	ACT	1.05	0.68	0.8	12/1/2012	1/1/2015	KH1002M01
MDTA19BMP0528	1	ON	NO	ACT	0.64	0.41	1	12/1/2012	1/1/2015	KH1004M01
MDTA19BMP0529	1	ON	NO	ACT	0.74	0.51	1	12/1/2012	1/1/2015	KH1004M02
MDTA19BMP0530	1	ON	NO	ACT	0.91	0.65	0.95	12/1/2012	1/1/2015	KH1005M01
MDTA19BMP0531	1	ON	NO	ACT	1.16	0.86	1	12/1/2012	1/1/2015	KH1005M02
MDTA19BMP0532	1	ON	NO	ACT	1.52	0.87	0.5	10/24/2001	10/24/2001	KH1006F01
MDTA19BMP0533	1	ON	NO	ACT	0.17	0.17	0.5	6/30/1993	6/30/1993	KH1007F01
MDTA19BMP0534	1	ON	NO	ACT	0.66	0.45	0.9	12/1/2012	1/1/2015	KH1013M01
MDTA19BMP0535	1	ON	NO	ACT	0.57	0.39	1	12/1/2012	1/1/2015	KH1013M02
MDTA19BMP0536	1	ON	NO	ACT	1.16	0.83	0.5	12/1/2012	1/1/2015	KH1014M01
MDTA19BMP0537	1	ON	NO	ACT	0.85	0.61	0.6	12/1/2012	1/1/2015	KH1019M01
MDTA19BMP0538	1	ON	NO	ACT	0.64	0.44	0.9	12/1/2012	1/1/2015	KH1020M01
MDTA19BMP0539	1	ON	NO	ACT	0.76	0.55	1		1/1/2005	KH1024M01
MDTA19BMP0540	1	ON	NO	ACT	1.32	0.9	0.6	12/1/2012	1/1/2015	KH1027M01
MDTA19BMP0541	1	ON	NO	ACT	0.86	0.59	0.7	12/1/2012	1/1/2015	KH1028M01
MDTA19BMP0542	1	ON	NO	ACT	0.58	0.38	1	12/1/2012	1/1/2015	KH1028M02
MDTA19BMP0543	1	ON	NO	ACT	1.61	1.04	0.7	12/1/2012	1/1/2015	KH1036M01
MDTA19BMP0544	1	ON	NO	ACT	0.68	0.45	0.8	12/1/2012	1/1/2015	KH1036M02
MDTA19BMP0545	1	ON	NO	ACT	2.91	1.89	0.56	12/1/2012	1/1/2015	KH1038M01
MDTA19BMP0546	1	ON	NO	ACT	0.97	0.64	0.7	12/1/2012	1/1/2015	KH1039M01
MDTA19BMP0547	1	ON	NO	ACT	1.73	1.15	0.6	12/1/2012	1/1/2015	KH1039M02
MDTA19BMP0548	1	ON	NO	ACT	1.14	0.76	0.5	12/1/2012	1/1/2015	KH1039M03
MDTA19BMP0549	1	ON	NO	ACT	0.88	0.57	0.7	12/1/2012	1/1/2015	KH1044M01
MDTA19BMP0550	1	ON	NO	ACT	0.74	0.49	0.95	12/1/2012	1/1/2015	KH1044M02
MDTA19BMP0551	1	ON	NO	ACT	1.5	0.9	0.8	12/1/2012	1/1/2015	KH1048M01
MDTA19BMP0552	1	ON	NO	ACT	2.09	1.4	0.6	12/1/2012	1/1/2015	KH1050M01
MDTA19BMP0553	1	ON	NO	ACT	1.03	0.62	1	12/1/2012	1/1/2015	KH1050M02
MDTA19BMP0554	1	ON	NO	ACT	0.92	0.58	1	12/1/2012	1/1/2015	KH1053M01
MDTA19BMP0555	1	ON	NO	ACT	1.1	0.69	1	12/1/2012	1/1/2015	KH1053M02
MDTA19BMP0556	1	ON	NO	ACT	0.72	0.42	1	12/1/2012	1/1/2015	KH1055M01
MDTA19BMP0557	1	ON	NO	ACT	0.63	0.34	1	12/1/2012	1/1/2015	KH1055M02
MDTA19BMP0558	1	ON	NO	ACT	0.8	0.60	1	12/1/2012	1/1/2014	KH1059M01
MDTA19BMP0559	1	ON	NO	ACT	0.45	0.28	1	12/1/2012	1/1/2014	KH1060M01

MDTA19BMP0560	1	ON	NO	ACT	0.95	0.65	1	8/1/2012	1/1/2014	KH1061M01
MDTA19BMP0561	1	ON	NO	ACT	1.09	0.77	0.9	8/1/2012	1/1/2014	KH1061M02
MDTA19BMP0562	1	ON	NO	ACT	0.83	0.58	0.95	8/1/2012	1/1/2014	KH1063M01
MDTA19BMP0563	1	ON	NO	ACT	0.72	0.52	0.8	8/1/2012	1/1/2014	KH1063M02
MDTA19BMP0564	1	ON	NO	ACT	0.59	0.43	0.9	8/1/2012	1/1/2014	KH1064M01
MDTA19BMP0565	1	ON	NO	ACT	0.73	0.53	0.9	8/1/2012	1/1/2014	KH1064M02
MDTA19BMP0566	1	ON	NO	ACT	0.9	0.67	1	12/1/2012	1/1/2014	KH1065M01
MDTA19BMP0567	1	ON	NO	ACT	0.77	0.56	1	12/1/2012	1/1/2014	KH1065M02
MDTA19BMP0568	1	ON	NO	ACT	0.58	0.40	0.95	12/1/2012	1/1/2014	KH1066M01
MDTA19BMP0569	1	ON	NO	ACT	0.64	0.42	0.95	12/1/2012	1/1/2014	KH1067M01
MDTA19BMP0570	1	ON	NO	ACT	0.73	0.41	1	12/1/2012	1/1/2014	KH1070M01
MDTA19BMP0571	1	ON	NO	ACT	0.7	0.43	1	12/1/2012	1/1/2014	KH1070M02
MDTA19BMP0572	1	ON	NO	ACT	1.17	0.79	0.95	12/1/2012	1/1/2014	KH1070M03
MDTA19BMP0573	1	ON	NO	ACT	0.67	0.47	1	12/1/2012	1/1/2014	KH1072M01
MDTA19BMP0574	1	ON	NO	ACT	0.65	0.45	1	12/1/2012	1/1/2014	KH1072M02
MDTA19BMP0575	1	ON	NO	ACT	1.19	0.82	1	12/1/2012	1/1/2014	KH1072M03
MDTA19BMP0576	1	ON	NO	ACT	1.23	0.79	1	12/1/2012	1/1/2014	KH1074M01
MDTA19BMP0577	1	ON	NO	ACT	1.04	0.63	0.95	12/1/2012	1/1/2014	KH1074M02
MDTA19BMP0578	1	ON	NO	ACT	1.13	0.74	1	12/1/2012	1/1/2014	KH1074M03
MDTA19BMP0579	1	ON	NO	ACT	1.01	0.68	1	12/1/2012	1/1/2014	KH1076M01
MDTA19BMP0580	1	ON	NO	ACT	0.76	0.47	1	12/1/2012	1/1/2014	KH1076M02
MDTA19BMP0581	1	ON	NO	ACT	1.21	0.46	1		1/1/2005	KH1077N01
MDTA19BMP0582	1	ON	NO	ACT	0.6	0.43	1	12/1/2012	1/1/2014	KH1078M01
MDTA19BMP0583	1	ON	NO	ACT	0.98	0.71	1	12/1/2012	1/1/2014	KH1078M02
MDTA19BMP0584	1	ON	NO	ACT	1.67	0.63	1		1/1/2005	KH1079N01
MDTA19BMP0585	1	ON	NO	ACT	1.09	0.73	1	8/1/2012	1/1/2014	KH1080M01
MDTA19BMP0586	1	ON	NO	ACT	1	0.68	1	8/1/2012	1/1/2014	KH1080M02
MDTA19BMP0587	1	ON	NO	ACT	1.01	0.77	0.9	8/1/2012	1/1/2014	KH1082M01
MDTA19BMP0588	1	ON	NO	ACT	1.27	0.64	1		1/1/2005	KH1082S01
MDTA19BMP0589	1	ON	NO	ACT	1.22	0.60	1		1/1/2005	KH1085N01
MDTA19BMP0590	1	ON	NO	ACT	0.88	0.48	1		1/1/1989	LB0314E01
MDTA19BMP0591	1	ON	NO	ACT	0.54	0.4	1		1/1/1989	LB0316A01
MDTA19BMP0592	1	ON	NO	ACT	0.71	0.31	1		1/1/1989	LB0316A02
MDTA19BMP0593	1	ON	NO	ACT	0.40	0.26	1	3/14/2003	3/14/2003	LB0317E01
MDTA19BMP0594	1	ON	NO	ACT	0.54	0.33	1	3/14/2003	3/14/2003	LB0317E02
MDTA19BMP0595	1	ON	NO	ACT	0.83	0.61	1	3/14/2003	3/14/2003	LB0318E01
MDTA19BMP0596	1	ON	NO	ACT	0.15	0.13	1	3/14/2003	3/14/2003	LB0319E01
MDTA19BMP0597	1	ON	NO	ACT	1.28	0.96	1	3/14/2003	3/14/2003	LB0319E02
MDTA19BMP0599	1	ON	NO	ACT	3.74	2.43	0.5	3/26/1997	3/26/1997	LB0319F02
MDTA19BMP0601	1	ON	NO	ACT	0.27	0.07	0.5	3/26/1997	3/26/1997	LB0319F04
MDTA19BMP0602	1	ON	NO	ACT	0.48	0.26	1	3/14/2003	3/14/2003	LB0320F01
MDTA19BMP0603	1	ON	NO	ACT	0.54	0.30	1	3/14/2003	3/14/2003	LB0320F02
MDTA19BMP0604	1	ON	NO	ACT	0.5	0.25	1		1/1/1989	LB0367M01
MDTA19BMP0605	1	ON	NO	ACT	0.5	0.21	1		1/1/1989	LB0367M02
MDTA19BMP0606	1	ON	NO	ACT	0.42	0.15	1		1/1/1989	LB0368E01
MDTA19BMP0607	1	ON	NO	ACT	0.5	0.28	0.92		1/1/1989	LB0368M01
MDTA19BMP0608	1	ON	NO	ACT	1	0.38	1		1/1/1989	LB0369M01
MDTA19BMP0609	1	ON	NO	ACT	0.57	0.15	1	6/6/2003	6/6/2003	NB0019F01
MDTA19BMP0610	1	ON	NO	ACT	0.06	0.03	1	11/12/2008	1/1/2011	NB0021F01
MDTA19BMP0611	1	ON	NO	ACT	1.09	0.92	1	6/7/2009	6/7/2009	NB0021S01
MDTA19BMP0612	1	ON	NO	ACT	0.24	0.17	0.5	7/1/2002	7/1/2002	PB0000F01

MDTA19BMP0613	1	ON	NO	ACT	0.25	0.17	0.5	7/1/2002	7/1/2002	PB0000F02
MDTA19BMP0614	1	ON	NO	ACT	0.21	0.14	0.5	7/1/2002	7/1/2002	PB0000F03
MDTA19BMP0620	1	ON	NO	ACT	2.44	0.12	1	12/21/2018	1/1/2019	KH0717A01
MDTA19BMP0621	1	ON	NO	ACT	0.13	0.08	1.8	1/5/2017	1/1/2019	LB0323F01
MDTA19BMP0622	1	ON	NO	ACT	4.29	1.57	2.6	1/1/2017	1/1/2020	FT0501S01
MDTA19BMP0623	1	ON	NO	ACT	2.28	0.74	1.38	1/1/2017	4/28/2021	HT0118S01
MDTA19BMP0624	1	ON	NO	ACT	0.43	0.35	1	8/24/2021	1/11/2021	KB0467E01
MDTA19BMP0625	1	ON	NO	ACT	0.32	0.26	1	8/24/2021	1/11/2021	KB0467E02
MDTA19BMP0626	1	ON	NO	ACT	1.06	0.82	1.0	8/24/2021	1/7/2021	KB0467E03
MDTA19BMP0627	1	ON	NO	ACT	0.86	0.69	1.0	8/24/2021	1/5/2021	KB0469E01
MDTA19BMP0628	1	ON	NO	ACT	0.32	0.25	1.0	8/24/2021	2/4/2021	KB0469A02
MDTA19BMP0629	1	ON	NO	ACT	0.50	0.36	1.0	8/24/2021	2/4/2021	KB0469A03
MDTA19BMP0630	1	ON	NO	ACT	0.99	0.16	0.6	11/9/2020	5/18/2020	KH0688S01
MDTA19BMP0631	1	ON	NO	ACT	0.90	0.50	1.2	11/9/2020	5/18/2020	KH0691S01
MDTA19BMP0633	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0304W01
MDTA19BMP0634	1	ON	NO	ACT	1.04	0.21	1.0		12/31/2019	HT0B12S02
MDTA19BMP0635	1	ON	NO	ACT	0.96	0.10	0.9		12/31/2019	HT0022W01
MDTA19BMP0636	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0304W02
MDTA19BMP0637	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0307W01
MDTA19BMP0638	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0307W04
MDTA19BMP0639	1	ON	NO	ACT	0.8	0.36	1		12/31/2019	HT0028W01
MDTA19BMP0640	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0307W07
MDTA19BMP0641	1	ON	NO	ACT	0.75	0.15	0.7		12/31/2019	HT0B07N03
MDTA19BMP0642	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0299E01
MDTA19BMP0643	1	ON	NO	ACT	0.91	0.06	1		12/31/2019	HT0022W02
MDTA19BMP0644	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0307W05
MDTA19BMP0645	1	ON	NO	ACT	0.78	0.14	0.68		12/31/2019	HT0B07N02
MDTA19BMP0646	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0307W03
MDTA19BMP0647	1	ON	LB0319F01	ACT	3.79	2.8	1	12/20/2022	12/31/2020	LB0319F01U
MDTA19BMP0648	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0304W03
MDTA19BMP0649	1	ON	NO	ACT	124.52	12.93	0		12/31/1988	KH0801A01
MDTA19BMP0650	1	ON	NO	ACT	0.54	0.22	1		12/31/2019	HT0014W02
MDTA19BMP0651	1	ON	KB0464N01	ACT	10.8	4.95	1.38	12/20/2022	12/31/2020	KB0464N01U
MDTA19BMP0652	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0307W06
MDTA19BMP0653	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0299E04
MDTA19BMP0654	1	ON	NO	ACT	0.45	0.11	0.99		12/31/2019	HT0B12S03
MDTA19BMP0655	1	ON	NO	ACT	1	0.2	1		12/31/2019	HT0B12S01
MDTA19BMP0656	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0307W02
MDTA19BMP0657	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0303W02
MDTA19BMP0658	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0307W08
MDTA19BMP0659	1	ON	NO	ACT	0.75	0.33	1		12/31/2019	HT0014W01
MDTA19BMP0660	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0304W05
MDTA19BMP0661	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0299E06
MDTA19BMP0662	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0299E05
MDTA19BMP0663	1	ON	NO	ACT	0.36	0.17	1		12/31/2019	HT0028W02
MDTA19BMP0664	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0299E02
MDTA19BMP0665	1	ON	NO	ACT	0.77	0.08	1		12/31/2019	HT0022W04
MDTA19BMP0666	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0303W01
MDTA19BMP0667	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0299E03
MDTA19BMP0668	1	ON	LB0319F03	ACT	1.52	0.7	1	12/20/2022	12/31/2020	LB0319F03U
MDTA19BMP0669	1	ON	FT0560F01	ACT	4.62	3.39	1.36	12/20/2022	12/31/2020	FT0560F01U

MDTA19BMP0670	1	ON	NO	ACT	0.88	0.09	1		12/31/2019	HT0022W03
MDTA19BMP0671	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0304W04
MDTA19BMP0672	1	ON	NO	ACT	1	0.43	0.95		12/31/2019	HT0B07N01
MDTA19BMP0673	1	ON	NO	ACT	0.02	0.01	1	12/7/2022	7/22/2022	LB0304W06
MDTA19BMP0675	1	ON	NO	ACT	0.23	0.13	2.6		3/1/2023	KH0683N02
MDTA19BMP0676	1	ON	NO	ACT	0.96	0.52	2.6		3/1/2023	KH0684N03
MDTA19BMP0677	1	ON	NO	ACT	0.69	0.09	2.6		3/1/2023	KH0682N02
MDTA19BMP0678	1	ON	NO	ACT	0.96	0.29	1		12/32/2019	HT0028E01

Table B.1.c Reporting Requirements for Alternative BMPs (Sample Input Table)

More specific data related to alternative BMPs is populated in this table.

BMP_ID[1]	PROJECT_DESC	PROJECT_LENGTH	WEIGHT_COLLECTED	TIMES_SWEPT	ACRES_PLANTED	IMP_ACR_ELIM	EQU_IMP_ACR	INSTALL_DATE	IMPL_COMP_YR	GEN_COMMENTS
MDTA19BMP0615	Street Sweeping		684.8	3X/MO			190.9		2014	Average of FY19 - FY23 for all facilities swept
MDTA19BMP0618	Pavement Removal					31.05	23.28		2005	

Note: Several Example BMPs have been incorporated to help display the new structure.

[1] Every BMP Identified in this table should correspond to "BMP" sheet.

Table B.1.c. Reporting Requirements for Alternative Practices

Description: This table is used to collect information specific to Alternative practices.

COLUMN NAME	DATA TYPE	SIZE	MANDATORY	DESCRIPTION
BMP_ID	TEXT	13	M	BMP_ID linking record to BMP_ID in Table B.1.a.
PROJECT_DESC	TEXT	75	M	Description of project
PROJECT_LENGTH	NUMERIC	8	C	Length of stream restoration, shoreline or outfall stabilization in feet; Field is conditional on BMP_TYPE = OUT, SHST, or STRE
ACRES_SWEPT	NUMERIC	6	C	Acres swept for street sweeping (one pass); Field is conditional on BMP_TYPE = MSS or VSS
TIMES_SWEPT	NUMERIC	2	C	Number of times per year area is swept; Fiel is conditional on BMP_TYPE = MSS or VSS
ACRES_PLANTED	NUMERIC	6	C	Acres of trees planted; Field is conditional on BMP_TYPE = FPU or IMPF
IMP_ACR_ELIM	NUMERIC	6	C	Impervious acres removed to pervious land (IMPP); Field is conditional on BMP_TYPE = IMPP
EQU_IMP_ACR	NUMERIC	6	M	Equivalent impervious acres treated by alternative BMP (total acres of credit for the alt BMP)
INSTALL_DATE	DATE	8	C	BMP completion date (MM/DD/YYYY); Field is conditional on BMP_TYPE = OUT, SHST, STRE, SEPC, SEPD, or SEPP
IMPL_COMP_YR	TEXT	4	C	Year (calendar) of completed Project (YYYY); Field is conditional on BMP_TYPE = MSS, VSS, CBC, SDV, IMPF, IMPP, or FPU
GEN_COMMENTS	TEXT	255	C	General comments - optional information

MDE Approved BMP Classifications for Urban BMP Database

BMP Class	BMP Type	Description
ESD Practices		
Alternative Surfaces (A)		
E	AGRE	Green Roof - Extensive
E	AGRI	Green Roof -Intensive
E	APRP	Permeable Pavements
E	ARTF	Reinforced Turf
Nonstructural Techniques (N)		
E	NDRR	Disconnection of Rooftop Runoff
E	NDNR	Disconnection of Non-Rooftop Runoff
E	NSCA	Sheetflow to Conservation Areas
Micro-Scale Practices (M)		
E	MRWH	Rainwater Harvesting
E	MSGW	Submerged Gravel Wetlands
E	MILS	Landscape Infiltration
E	MIBR	Infiltration Berms
E	MIDW	Dry Wells
E	MMBR	Micro-Bioretention
E	MRNG	Rain Gardens
E	MSWG	Grass Swale
E	MSWW	Wet Swale
E	MSWB	Bio-Swale
E	MENF	Enhanced Filters
Structural BMPs		
Ponds (P)		
S	PWED	Extended Detention Structure, Wet
S	PWET	Retention Pond (Wet Pond)
S	PMPS	Multiple Pond System
S	PPKT	Pocket Pond
S	PMED	Micropool Extended Detention Pond
Wetlands (W)		
S	WSHW	Shallow Marsh
S	WEDW	ED - Wetland
S	WPWS	Wet Pond - Wetland
S	WPKT	Pocket Wetland
Infiltration (I)		
S	IBAS	Infiltration Basin
S	ITRN	Infiltration Trench
Filtering Systems (F)		
S	FBIO	Bioretention
S	FSND	Sand Filter
S	FUND	Underground Filter

S	FPER	Perimeter (Sand) Filter
S	FORG	Organic Filter (Peat Filter)
Open Channels (O)		
S	ODSW	Dry Swale
S	OWSW	Wet Swale
Other Practices (X)		
S	XDPD	Detention Structure (Dry Pond)
S	XDED	Extended Detention Structure, Dry
S	XFLD	Flood Management Area
S	COGS	Oil Grit Separator
S	XOTH	Other
MDE Approved Alternative BMP Classificati		
A	MSS	Mechanical Street Sweeping
A	VSS	Regenerative/Vacuum Street Sweeping
A	IMPP	Impervious Surface Elimination (to pervioius)
A	IMPF	Impervious Surface Elimination (to Forest)
A	FPU	Planting Trees or Forestation on Pervious Urban
A	CBC	Catch Basin Cleaning
A	SDV	Storm Drain Vacuuming
A	STRE	Stream Restoration
A	OUT	Outfall Stabilization
A	SPSC	Regenerative Step Pool Conveyance
A	SHST	Shoreline Management
A	SEPP	Septic Pumping
A	SEPD	Septic Denitrification
A	SEPC	Septic Connection to WWTP